



## RADIO TEST REPORT

For

OAXIS ASIA PTE LTD

myFirst Fone S3

Test Model: KW1401

Prepared for : OAXIS ASIA PTE LTD  
Address : 31 Woodlands Close #01-22 Singapore 737855

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.  
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Date of receipt of test sample : November 22, 2022  
Number of tested samples : 2  
Sample No. : A112122073-1, A112122073-2  
Serial number : Prototype  
Date of Test : November 22, 2022 ~ December 01, 2022  
Date of Report : December 02, 2022





<b>RADIO TEST REPORT</b> <b>ETSI EN 301 908-13 V13.2.1 (2022-02)</b> IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)	
<b>Report Reference No.</b> ..... : <b>LCSA112122073EH</b>	
<b>Date of Issue</b> ..... : December 02, 2022	
<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> ..... : OAXIS ASIA PTE LTD	
<b>Address</b> ..... : 31 Woodlands Close #01-22 Singapore 737855	
<b>Test Specification</b> <b>Standard</b> ..... : Draft ETSI EN 301 908-1 V15.2.0 (2022-10) ETSI EN 301 908-13 V13.2.1 (2022-02) <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 S3</b> <b>Trade Mark</b> ..... : myFirst <b>Test Model</b> ..... : KW1401 <b>Ratings</b> ..... : Input: DC 5V, 1000mA, Max 5W Output: DC 5V, 1000mA, Max 5W DC 3.85V by Rechargeable Li-ion Battery, 650mAh	
<b>Result</b> ..... : <b>Positive</b>	

Compiled by:

Supervised by:

Approved by:

Rory Huang/ Administrator

Cary Luo/ Technique principal

Gavin Liang/ Manager



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Scan code to check authenticity



## RADIO -- TEST REPORT

Test Report No. : LCSA112122073EH	December 02, 2022 Date of issue
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Test Model.....	: KW1401
EUT.....	: myFirst Fone S3
<b>Applicant.....</b>	<b>: OAXIS ASIA PTE LTD</b>
Address.....	: 31 Woodlands Close #01-22 Singapore 737855
Telephone.....	: /
Fax.....	: /
<b>Manufacturer.....</b>	<b>: OAXIS ASIA PTE LTD</b>
Address.....	: 31 Woodlands Close #01-22 Singapore 737855
Telephone.....	: /
Fax.....	: /
<b>Factory.....</b>	<b>: Eastern Dynamics (Shenzhen) Technology Co., Ltd</b>
Address.....	: Building No.9, 3F, Longbi Industry Zone, Bantian Street, Longgang District, Shenzhen, Guangdong, China
Telephone.....	: /
Fax.....	: /

<b>Test Result</b>	<b>Positive</b>
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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	December 02, 2022	Initial Issue	---





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## 1. GENERAL INFORMATION

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

EUT	: myFirst Fone S3
Test Model	: KW1401
Power Supply	: Input: DC 5V, 1000mA, Max 5W Output: DC 5V, 1000mA, Max 5W DC 3.85V by Rechargeable Li-ion Battery, 650mAh
Hardware Version	: ED01_MB_V1.2
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	: Internal Antenna, 1.24dBi(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; 802.11g/n: OFDM
Antenna Description	: Internal Antenna, 1.24dBi(Max.)
2G	:
Support Band	: <input checked="" type="checkbox"/> GSM 900 (EU-Band) <input checked="" type="checkbox"/> DCS 1800 (EU-Band) <input checked="" 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
Downlink	: GSM 900: 925MHz~960MHz DCS 1800: 1805MHz~1880MHz
Type Of Modulation	: GMSK for GSM/GPRS; GMSK/8PSK for EGPRS







Antenna Description : Internal Antenna  
-0.74dBi (max.) For GSM 900  
0.22dBi (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 : Internal Antenna  
0.41dBi (max.) For WCDMA Band I  
-0.74dBi (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 5(Non EU-Band)  
☒ E-UTRA Band 7(EU-Band)  
☒ E-UTRA Band 8(EU-Band)  
☒ E-UTRA Band 20(EU-Band)

LTE Release Version : R10

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  
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

Type Of Modulation : QPSK/16QAM

Antenna Description : Internal Antenna  
0.23dBi (max.) For E-UTRA Band 1





0.21dBi (max.) For E-UTRA Band 3  
0.12dBi (max.) For E-UTRA Band 7  
-0.73dBi (max.) For E-UTRA Band 8  
-1.34dBi (max.) For E-UTRA Band 20

Power Class : Class 3

GPS Receiver :

Receive Frequency : 1575.42MHz

Channel Number : 1

Antenna Description : Internal Antenna, 1.35dBi(Max.)

GLONASS Receiver :

Receive Frequency : 1602.5625MHz

Channel Number : 1

Antenna Description : Internal Antenna, 1.35dBi(Max.)

BDS Receiver :

Frequency Range : 1561.098MHz

Channel Number : 1

Antenna Description : Internal Antenna, 1.35dBi(Max.)

QZSS Receiver :

Frequency Range : 1575.42MHz

Channel Number : 1

Antenna Description : Internal Antenna, 1.35dBi(Max.)

SBAS Receiver :

Frequency Range : 1575.42MHz

Channel Number : 1

Antenna Description : Internal Antenna, 1.35dBi(Max.)







## 1.2. Support Equipment List

Manufacturer	Description	Model	Serial Number	Certificate
OPPO	Adapter	OP52KAUH	---	CE

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

## 1.3. External I/O

I/O Port Description	Quantity	Cable
Charging port	1	USB Cable: 0.8m, unshielded

## 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	V15.2.0 (2022-10)
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)	V13.2.1 (2022-02)
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 16.9.0 Release 16)	V16.9.0 (2021-03)

The objective is to determine compliance with Draft ETSI EN 301 908-1 V15.2.0 (2022-10) & ETSI EN 301 908-13 V13.2.1 (2022-02).

## 1.5. Test Conditions

Conditions	Temperature	Voltage
Normal	21-25°C	DC 3.85V
Low extreme Temperature/Low extreme Voltage (TL/VL);	-20°C	DC 3.5V
Low extreme Temperature/High extreme Voltage (TL/VH);	-20°C	DC 4.4V
High extreme Temperature/Low extreme Voltage (TH/VL);	+45°C	DC 3.5V
High extreme Temperature/High extreme Voltage (TH/VH).	+45°C	DC 4.4V

Note1: For all conditions, the humidity range is:40-75%, the pressure range is 86-106kPa.The High Voltage DC 4.4V and Low Voltage DC 3.5V 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

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.
- 4) The EUT has one SIM card slots and the result was recorded in the report.

## 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.



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Scan code to check authenticity



## 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	:	Ling Zhu
Temperature/ Humidity:	:	23.1℃/ 54.2%

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
4.2.2	Transmitter Maximum Output Power					
	Normal	Pass	Pass	Pass	Pass	Pass
	TL/VL	Pass	Pass	Pass	Pass	Pass
	TL/VH	Pass	Pass	Pass	Pass	Pass
	TH/VL	Pass	Pass	Pass	Pass	Pass
	TH/VH	Pass	Pass	Pass	Pass	Pass
4.2.5	Transmitter Minimum Output Power					
	Normal	Pass	Pass	Pass	Pass	Pass
	TL/VL	Pass	Pass	Pass	Pass	Pass
	TL/VH	Pass	Pass	Pass	Pass	Pass
	TH/VL	Pass	Pass	Pass	Pass	Pass
	TH/VH	Pass	Pass	Pass	Pass	Pass
4.2.3	Transmitter Spectrum Emission Mask					
	Normal	Pass	Pass	Pass	Pass	Pass
4.2.11	Transmitter Adjacent Channel Leakage Power Ratio					
	Normal	Pass	Pass	Pass	Pass	Pass
	TL/VL	Pass	Pass	Pass	Pass	Pass
	TL/VH	Pass	Pass	Pass	Pass	Pass
	TH/VL	Pass	Pass	Pass	Pass	Pass
	TH/VH	Pass	Pass	Pass	Pass	Pass
4.2.4	Transmitter Spurious Emissions					
	Normal	Pass	Pass	Pass	Pass	Pass
4.2.10	Receiver Spurious Emissions					
	Normal	Pass	Pass	Pass	Pass	Pass
4.2.6	Receiver Adjacent Channel Selectivity (ACS)					
	Normal	Pass	Pass	Pass	Pass	Pass
4.2.7	Receiver Blocking Characteristics					
	Normal	Pass	Pass	Pass	Pass	Pass
4.2.8	Receiver Spurious Response					
	Normal	Pass	Pass	Pass	Pass	Pass
4.2.9	Receiver Intermodulation Characteristics					





	Normal	Pass	Pass	Pass	Pass	Pass
4.2.12	Receiver Reference Sensitivity Level					
	Normal	Pass	Pass	Pass	Pass	Pass
	TL/VL	Pass	Pass	Pass	Pass	Pass
	TL/VH	Pass	Pass	Pass	Pass	Pass
	TH/VL	Pass	Pass	Pass	Pass	Pass
	TH/VH	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
4.2.2	Radiated emissions (UE)					
	Normal	Pass	Pass	Pass	Pass	Pass
4.2.4	Control and monitoring functions (UE)					
	Normal	Pass	Pass	Pass	Pass	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 3.85V

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

**VH:** High extreme Voltage – DC 4.4V

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

**VL:** Low extreme Voltage – DC 3.5V

**N/A:** Not applicable.

—: Not test.





#### 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	2022-10-29	2023-10-28
3	MXA Signal Analyzer	Agilent	N9020A	MY51250905	2022-10-29	2023-10-28
4	DC Power Supply	Agilent	E3642A	N/A	2022-10-29	2023-10-28
5	MXG Vector Signal Generator	Agilent	N5182A	MY47071151	2022-06-16	2023-06-15
6	PSG Analog Signal Generator	Agilent	E8257D	MY4520521	2022-06-16	2023-06-15
7	Temperature & Humidity Chamber	GUANGZHOU GOGNWEN	GDS-100	70932	2022-10-06	2023-10-05
8	EMI Test Software	Farad	EZ	/	N/A	N/A
9	3m Full Anechoic Chamber	MRDIANZI	FAC-3M	MR009	2021-09-25	2024-09-24
10	Positioning Controller	Max-Full	MF7802BS	MF780208586	N/A	N/A
11	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2021-08-29	2024-08-28
12	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2021-09-12	2024-09-11
13	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-09-05	2024-09-04
14	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2021-08-29	2024-08-28
15	Broadband Preamplifier	SCHWARZBECK	BBV9719	9719-025	2022-06-16	2023-06-15
16	EMI Test Receiver	R&S	ESR 7	101181	2022-06-16	2023-06-15
17	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2022-10-29	2023-10-28
18	Broadband Preamplifier	/	BP-01M18G	P190501	2022-06-16	2023-06-15
19	WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW 500	103818	2022-06-16	2023-06-15
20	RF Filter	Micro-Tronics	BRC50718	017	2022-10-29	2023-10-28
21	RF Filter	Micro-Tronics	BRC50719	011	2022-10-29	2023-10-28
22	RF Filter	Micro-Tronics	BRC50720	011	2022-10-29	2023-10-28
23	RF Filter	Micro-Tronics	BRC50721	013	2022-10-29	2023-10-28
24	RF Filter	Micro-Tronics	BRM50702	195	2022-08-17	2023-08-16
25	6dB Attenuator	/	100W/6dB	1172040	2022-06-16	2023-06-15
26	3dB Attenuator	/	2N-3dB	/	2022-10-29	2023-10-28







## 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)	Average Power (dBm, 16QAM)
		RB Size	RB Offset		
5MHz	Low Range	1	0	21.70	21.05
			max	21.62	20.86
		Partial	0	21.69	20.90
			max	21.67	20.94
	Mid Range	1	0	21.66	20.97
			max	21.65	20.81
		Partial	0	21.74	20.98
			max	21.69	21.02
	High Range	1	0	21.58	20.82
			max	21.62	20.93
		Partial	0	21.65	21.04
			max	21.68	21.02
20MHz	Low Range	1	0	21.52	20.82
			max	21.20	20.47
		Partial	0	21.35	20.58
			max	21.23	20.55
	Mid Range	1	0	21.48	20.85
			max	21.07	20.50
		Partial	0	21.16	20.53
			max	21.01	20.34
	High Range	1	0	21.30	20.63
			max	20.85	20.35
		Partial	0	20.97	20.39
			max	21.10	20.45





## The Conducted Power Measurement Result for LTE Band

### Test Result for LTE Band 3

Channel Bandwidth	Channel	RB Allocation		Average Power (dBm, QPSK)	Average Power (dBm, 16QAM)
		RB Size	RB Offset		
1.4MHz	Low Range	1	0	21.62	20.98
			max	21.58	20.97
		Partial	0	21.68	21.05
			max	21.71	20.95
	Mid Range	1	0	21.81	21.13
			max	21.73	20.96
		Partial	0	21.51	20.89
			max	21.64	20.97
	High Range	1	0	21.84	21.05
			max	21.36	20.65
		Partial	0	21.45	20.69
			max	21.42	20.80
5MHz	Low Range	1	0	21.65	20.96
			max	21.67	21.10
		Partial	0	21.69	20.91
			max	21.72	20.88
	Mid Range	1	0	21.57	20.93
			max	21.51	20.86
		Partial	0	21.52	20.81
			max	21.62	20.86
	High Range	1	0	21.57	20.86
			max	21.37	20.64
		Partial	0	21.42	20.77
			max	21.37	20.61
20MHz	Low Range	1	0	21.49	20.83
			max	21.23	20.64
		Partial	0	21.53	20.70
			max	21.36	20.63
	Mid Range	1	0	21.29	20.62
			max	21.39	20.73
		Partial	0	21.33	20.65
			max	21.43	20.80
	High Range	1	0	21.37	20.57
			max	21.33	20.55
		Partial	0	21.42	20.57
			max	21.34	20.62





## The Conducted Power Measurement Result for LTE Band

### Test Result for LTE Band 7

Channel Bandwidth	Channel	RB Allocation		Average Power (dBm, QPSK)	Average Power (dBm, 16QAM)
		RB Size	RB Offset		
5MHz	Low Range	1	0	21.73	21.02
			max	21.71	20.96
		Partial	0	21.85	21.17
			max	21.73	21.00
	Mid Range	1	0	21.69	21.06
			max	21.66	21.04
		Partial	0	21.70	21.07
			max	21.73	21.06
	High Range	1	0	21.94	21.21
			max	21.93	21.20
		Partial	0	21.95	21.25
			max	22.05	21.40
20MHz	Low Range	1	0	21.62	20.96
			max	21.91	21.29
		Partial	0	21.68	20.91
			max	21.97	21.22
	Mid Range	1	0	21.43	20.69
			max	21.48	20.74
		Partial	0	21.50	20.83
			max	21.52	20.78
	High Range	1	0	21.53	20.91
			max	21.77	21.12
		Partial	0	21.66	20.99
			max	21.79	21.05





## The Conducted Power Measurement Result for LTE Band

### Test Result for LTE Band 8

Channel Bandwidth	Channel	RB Allocation		Average Power (dBm, QPSK)	Average Power (dBm, 16QAM)
		RB Size	RB Offset		
1.4MHz	Low Range	1	0	21.34	20.71
			max	21.29	20.65
		Partial	0	21.38	20.64
			max	21.38	20.71
	Mid Range	1	0	21.67	21.01
			max	21.60	20.80
		Partial	0	21.64	20.86
			max	21.64	20.90
	High Range	1	0	21.26	20.53
			max	21.13	20.46
		Partial	0	21.09	20.39
			max	20.77	20.36
5MHz	Low Range	1	0	21.32	20.60
			max	21.51	20.78
		Partial	0	21.31	20.59
			max	21.46	20.73
	Mid Range	1	0	21.69	21.03
			max	21.61	20.97
		Partial	0	21.74	21.03
			max	21.64	20.85
	High Range	1	0	21.34	20.63
			max	21.27	20.60
		Partial	0	21.48	20.74
			max	21.28	20.63
10MHz	Low Range	1	0	21.43	20.77
			max	21.56	20.94
		Partial	0	21.39	20.71
			max	21.53	20.79
	Mid Range	1	0	21.69	21.01
			max	21.62	20.92
		Partial	0	21.83	21.15
			max	21.62	20.88
	High Range	1	0	21.54	20.75
			max	21.25	20.57
		Partial	0	21.51	20.77
			max	21.29	20.56





## The Conducted Power Measurement Result for LTE Band

### Test Result for LTE Band 20

Channel Bandwidth	Channel	RB Allocation		Average Power (dBm, QPSK)	Average Power (dBm, 16QAM)
		RB Size	RB Offset		
5MHz	Low Range	1	0	21.64	20.86
			max	21.80	21.11
		Partial	0	21.77	21.10
			max	21.64	20.93
	Mid Range	1	0	22.16	21.42
			max	21.97	21.27
		Partial	0	22.24	21.54
			max	22.00	21.31
	High Range	1	0	21.85	21.24
			max	21.34	20.63
		Partial	0	21.68	21.01
			max	21.57	20.90
20MHz	Low Range	1	0	21.86	21.22
			max	21.90	21.21
		Partial	0	21.98	21.26
			max	22.01	21.37
	Mid Range	1	0	22.01	21.35
			max	21.75	21.15
		Partial	0	22.06	21.34
			max	21.54	20.89
	High Range	1	0	21.84	21.12
			max	21.35	20.71
		Partial	0	22.09	21.45
			max	21.60	20.90







## 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)		
51.53	Horizontal	-74.21	-36.00	Pass
818.44	H	-72.86	-36.00	
3905.21	H	-67.49	-30.00	
5852.45	H	-53.30	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
59.27	Vertical	-80.96	-36.00	Pass
851.64	V	-70.47	-36.00	
3903.54	V	-63.27	-30.00	
5854.13	V	-55.38	-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)		
60.95	Horizontal	-73.31	-36.00	Pass
909.10	H	-71.18	-36.00	
3901.21	H	-65.12	-30.00	
5853.48	H	-53.73	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
53.44	Vertical	-75.05	-36.00	Pass
845.16	V	-71.40	-36.00	
3903.53	V	-61.83	-30.00	
5853.23	V	-51.74	-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)		
58.44	Horizontal	-72.96	-36.00	Pass
820.21	H	-76.58	-36.00	
3903.14	H	-61.43	-30.00	
5850.35	H	-53.04	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
55.15	Vertical	-71.88	-36.00	Pass
777.88	V	-75.23	-36.00	
3902.56	V	-67.93	-30.00	
5854.77	V	-52.95	-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)		
52.74	Horizontal	-72.09	-36.00	Pass
943.99	H	-80.56	-36.00	
3905.08	H	-65.41	-30.00	
5852.34	H	-53.78	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
58.18	Vertical	-74.56	-36.00	Pass
852.43	V	-71.54	-36.00	
3901.06	V	-65.21	-30.00	
5852.17	V	-50.16	-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)		
58.73	Horizontal	-76.99	-36.00	Pass
897.88	H	-77.26	-36.00	
3504.82	H	-60.17	-30.00	
5255.06	H	-50.99	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
59.31	Vertical	-73.67	-36.00	Pass
949.08	V	-78.68	-36.00	
3502.01	V	-63.43	-30.00	
5255.07	V	-56.04	-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)		
59.42	Horizontal	-77.58	-36.00	Pass
898.11	H	-78.20	-36.00	
3503.75	H	-60.28	-30.00	
5254.60	H	-60.97	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
58.14	Vertical	-72.77	-36.00	Pass
967.48	V	-74.76	-36.00	
3502.67	V	-68.75	-30.00	
5255.39	V	-57.44	-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)		
57.93	Horizontal	-71.51	-36.00	Pass
732.90	H	-78.96	-36.00	
3504.69	H	-64.88	-30.00	
5252.94	H	-54.86	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
50.15	Vertical	-71.87	-36.00	Pass
972.24	V	-72.08	-36.00	
3502.61	V	-64.57	-30.00	
5250.35	V	-58.62	-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)		
57.24	Horizontal	-78.50	-36.00	Pass
884.45	H	-74.16	-36.00	
3505.89	H	-67.74	-30.00	
5255.98	H	-54.08	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
50.72	Vertical	-80.37	-36.00	Pass
827.12	V	-78.41	-36.00	
3503.71	V	-61.16	-30.00	
5253.28	V	-56.11	-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)		
60.05	Horizontal	-78.70	-36.00	Pass
975.09	H	-79.13	-36.00	
3501.52	H	-62.52	-30.00	
5255.33	H	-56.30	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
57.10	Vertical	-79.67	-36.00	Pass
922.51	V	-76.64	-36.00	
3503.18	V	-65.98	-30.00	
5251.13	V	-55.71	-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)		
50.69	Horizontal	-75.04	-36.00	Pass
982.69	H	-73.59	-36.00	
3504.86	H	-70.70	-30.00	
5255.64	H	-55.73	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
51.09	Vertical	-79.99	-36.00	Pass
701.48	V	-74.83	-36.00	
3500.74	V	-69.74	-30.00	
5253.57	V	-51.73	-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)		
53.58	Horizontal	-71.23	-36.00	Pass
968.49	H	-71.25	-36.00	
1671.54	H	-64.01	-30.00	
2507.92	H	-60.03	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
50.69	Vertical	-74.68	-36.00	Pass
946.24	V	-73.24	-36.00	
1673.71	V	-63.14	-30.00	
2513.56	V	-57.79	-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)		
55.41	Horizontal	-78.22	-36.00	Pass
904.99	H	-79.46	-36.00	
5071.81	H	-67.44	-30.00	
7687.82	H	-53.12	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
50.40	Vertical	-79.55	-36.00	Pass
797.08	V	-72.83	-36.00	
5073.33	V	-62.36	-30.00	
7688.06	V	-53.42	-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)		
50.48	Horizontal	-76.59	-36.00	Pass
713.01	H	-75.28	-36.00	
5073.28	H	-69.21	-30.00	
7689.83	H	-53.76	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
55.48	Vertical	-77.94	-36.00	Pass
707.58	V	-74.61	-36.00	
5070.32	V	-60.97	-30.00	
7689.03	V	-55.69	-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)		
50.34	Horizontal	-80.41	-36.00	Pass
727.41	H	-77.65	-36.00	
5070.69	H	-69.76	-30.00	
7686.34	H	-58.94	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
56.39	Vertical	-78.27	-36.00	Pass
865.89	V	-72.79	-36.00	
5075.06	V	-68.41	-30.00	
7688.50	V	-54.21	-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)		
52.83	Horizontal	-73.02	-36.00	Pass
809.24	H	-80.88	-36.00	
1796.17	H	-68.47	-30.00	
2695.98	H	-55.69	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
59.61	Vertical	-73.27	-36.00	Pass
945.58	V	-70.37	-36.00	
1796.36	V	-67.70	-30.00	
2692.04	V	-51.77	-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)		
55.56	Horizontal	-78.30	-36.00	Pass
853.40	H	-72.50	-36.00	
1795.46	H	-62.63	-30.00	
2690.82	H	-56.09	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
60.21	Vertical	-80.10	-36.00	Pass
909.65	V	-75.44	-36.00	
1799.92	V	-70.27	-30.00	
2691.91	V	-57.71	-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)		
52.30	Horizontal	-73.52	-36.00	Pass
893.63	H	-71.22	-36.00	
1800.00	H	-62.12	-30.00	
2692.20	H	-58.47	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
52.10	Vertical	-79.23	-36.00	Pass
851.88	V	-71.63	-36.00	
1800.88	V	-60.46	-30.00	
2695.34	V	-55.36	-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)		
58.58	Horizontal	-76.41	-36.00	Pass
835.80	H	-78.36	-36.00	
1797.32	H	-67.70	-30.00	
2690.04	H	-52.36	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
56.96	Vertical	-74.07	-36.00	Pass
816.76	V	-77.85	-36.00	
1798.10	V	-62.58	-30.00	
2693.55	V	-56.34	-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)		
60.38	Horizontal	-77.70	-36.00	Pass
734.56	H	-80.84	-36.00	
1794.89	H	-69.72	-30.00	
2693.12	H	-59.76	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
53.11	Vertical	-78.51	-36.00	Pass
749.97	V	-75.65	-36.00	
1795.97	V	-67.79	-30.00	
2695.30	V	-55.23	-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)		
56.36	Horizontal	-75.17	-36.00	Pass
714.00	H	-79.22	-36.00	
1798.20	H	-61.12	-30.00	
2695.86	H	-52.28	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
58.96	Vertical	-73.81	-36.00	Pass
747.39	V	-71.59	-36.00	
1798.06	V	-70.01	-30.00	
2695.14	V	-54.83	-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)		
58.67	Horizontal	-77.28	-36.00	Pass
814.51	H	-73.73	-36.00	
1692.57	H	-61.46	-30.00	
2546.00	H	-50.17	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
55.06	Vertical	-77.68	-36.00	Pass
920.05	V	-73.49	-36.00	
1699.66	V	-62.02	-30.00	
2544.54	V	-58.31	-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)		
50.16	Horizontal	-72.50	-36.00	Pass
949.93	H	-75.29	-36.00	
1692.52	H	-63.81	-30.00	
2542.88	H	-59.45	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
60.55	Vertical	-75.52	-36.00	Pass
999.31	V	-76.48	-36.00	
1700.31	V	-63.55	-30.00	
2540.17	V	-55.16	-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)		
59.91	Horizontal	-72.69	-36.00	Pass
794.63	H	-74.78	-36.00	
1697.27	H	-66.14	-30.00	
2545.84	H	-52.69	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
50.61	Vertical	-71.33	-36.00	Pass
947.01	V	-80.78	-36.00	
1691.37	V	-67.66	-30.00	
2544.70	V	-51.87	-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)		
51.32	Horizontal	-74.81	-36.00	Pass
700.17	H	-71.11	-36.00	
1696.07	H	-67.94	-30.00	
2540.68	H	-50.95	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
58.32	Vertical	-75.68	-36.00	Pass
954.43	V	-79.02	-36.00	
1692.79	V	-61.16	-30.00	
2542.19	V	-52.86	-30.00	



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

