



RADIO TEST REPORT

For

OAXIS ASIA PTE LTD

myFirst Fone R1s, S11

Test Model: KW1305, G4K1

Prepared for : OAXIS ASIA PTE LTD
Address : 31 Woodlands Close #01-22 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,
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Date of receipt of test sample : June 23, 2020
Number of tested samples : 1
Serial number : Prototype
Date of Test : June 23, 2020 ~ July 03, 2020
Date of Report : July 01, 2022



Scan code to check authenticity

**RADIO TEST REPORT**

ETSI EN 301 908-1 V13.1.1 (2019-11) & ETSI EN 301 908-13 V13.1.1 (2019-11)
IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of
Directive 2014/53/EU;
Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)

Report Reference No. : LCS220121029AEH001

Date of Issue : July 01, 2022

Testing Laboratory Name : 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, ChinaTesting Location/ Procedure : Full application of Harmonised standards ■
Partial application of Harmonised standards □
Other standard testing method □**Applicant's Name..... : OAXIS ASIA PTE LTD**

Address : 31 Woodlands Close #01-22 Singapore 737855

Test SpecificationStandard : ETSI EN 301 908-1 V13.1.1 (2019-11)
ETSI EN 301 908-13 V13.1.1 (2019-11)

Test Report Form No. : LCSEMC-1.0

TRF Originator..... : Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF : Dated 2017-06

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Test Item Description. : myFirst Fone R1s, S11

Trade Mark..... : MyFirst, UMEOX

Test Model : KW1305, G4K1

Ratings : DC 3.7V by Rechargeable Li-Polymer Battery(580mAh)

Result : Positive**Compiled by:**

Vera Deng/ Administrators

Supervised by:

Cary Luo/ Technique principal

Approved by:

Gavin Liang/ Manager



RADIO -- TEST REPORT

Test Report No. : LCS220121029AEH001	<u>July 01, 2022</u> Date of issue
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Test Model.....	: KW1305, G4K1
EUT.....	: myFirst Fone R1s, S11
Applicant.....	: OAXIS ASIA PTE LTD
Address.....	: 31 Woodlands Close #01-22 Singapore 737855
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: OAXIS ASIA PTE LTD
Address.....	: 31 Woodlands Close #01-22 Singapore 737855
Telephone.....	: /
Fax.....	: /
Factory.....	: OAXIS ASIA PTE LTD
Address.....	: 31 Woodlands Close #01-22 Singapore 737855
Telephone.....	: /
Fax.....	: /

Test Result	Positive
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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

Revision	Issue Date	Revisions	Revised By
000	January 26, 2022	Initial Issue	Gavin Liang
001	July 01, 2022	See Remark	Gavin Liang

Remark:

1. Declared by applicant, Model/Type reference of the product is modified from “KW1305M” to “KW1305”, other information and results contained in this report are not changed, original test report become invalid.
2. Declared by applicant, require to re-sign the test report, “Date of issue” is replaced from “January 26, 2022” by “July 01, 2022”, other information and results contained in this report are not changed, original test report become invalid.



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1. GENERAL INFORMATION

1.1. Product Description for Equipment Under Test (EUT)

EUT : myFirst Fone R1s, S11
Test Model : KW1305, G4K1
Power Supply : DC 3.7V by Rechargeable Li-Polymer Battery(580mAh)
Hardware Version : HK839_MB_V1.0
Software Version : k11_V1.0.0

2G :

Support Band : ☒ GSM 900 (EU-Band) ☒ DCS 1800 (EU-Band)
☒ GSM 850 (U.S.-Band) ☒ PCS 1900 (U.S.-Band)

Release Version : R99

GPRS 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;

Antenna Description : Internal Antenna;
1.2dBi (max.) For GSM 850;
1.2dBi (max.) For GSM 900;
1.2dBi (max.) For DCS 1800;
1.2dBi (max.) For PCS 1900

Power Class : GSM 900: Level 5, DCS 1800: Level 0

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 : R8

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 : WCDMA: BPSK; HSDPA/HSUPA: BPSK

Antenna Description : Internal Antenna;
1.2dBi (max.) For WCDMA Band I;
1.2dBi (max.) For WCDMA Band VIII

Power Class : Level 3

LTE :

Support Band : ☒ 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)
LTE Release Version	: R9
	Uplink: E-UTRA Band 1: 1920MHz ~ 1980MHz
	E-UTRA Band 3: 1710MHz~1785MHz
	E-UTRA Band 7: 2500MHz ~ 2570MHz
	E-UTRA Band 8: 880MHz~815MHz
FDD Band	: 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
	Internal Antenna;
Antenna Description	: 1.2dBi (max.) For E-UTRA Band 1;
	1.2dBi (max.) For E-UTRA Band 3;
	1.2dBi (max.) For E-UTRA Band 7;
	0.7dBi (max.) For E-UTRA Band 8;
	1.2dBi (max.) For E-UTRA Band 20;
Power Class	: Class 3
Bluetooth	:
Frequency Range	: 2402MHz ~ 2480MHz
Channel Number	: 79 channels for Bluetooth V4.1(BDR/EDR)
	40 channels for Bluetooth V4.1(BT LE)
Channel Spacing	: 1MHz for Bluetooth V4.1(BDR/EDR)
	2MHz for Bluetooth V4.1(BT LE)
Modulation Type	: GFSK, $\pi/4$ -DQPSK, 8-DPSK for Bluetooth V4.1(BDR/EDR)
	GFSK for Bluetooth V4.1(BT LE)
Bluetooth Version	: V4.1
Antenna Description	: Internal Antenna, 1.97dBi(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; 802.11g/n: OFDM
Antenna Description	: Internal Antenna, 1.2dBi(Max.)
GPS Receiver	:
Receive Frequency	: 1575.42MHz
Channel Number	: 1





Antenna Description : Internal Antenna, 0dBi(Max.)



1.2. Support Equipment List

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

Note: The adapter are only used test, not shipped

1.3. External I/O

I/O Port Description	Quantity	Cable
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1.4. Objective

Standard Referenced	Standard Title	Standard Version
ETSI EN 301 908-1	IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 1: Introduction and common requirements	V11.1.1 (2016-07)
ETSI EN 301 908-13	IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU; Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)	V11.1.2 (2017-07)
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 12.7.0 Release 12)	V12.7.0 (2015-10)

The objective is to determine compliance with ETSI EN 301 908-1 V13.1.1 (2019-11) & ETSI EN 301 908-13 V13.1.1 (2019-11).

1.5. Test Conditions

Conditions	Temperature	Voltage
Normal	21-25℃	DC 3.7V
Low extreme Temperature/Low extreme Voltage (TL/VL);	-20℃	DC 3.3V
Low extreme Temperature/High extreme Voltage (TL/VH);	-20℃	DC 4.2V
High extreme Temperature/Low extreme Voltage (TH/VL);	+45℃	DC 3.3V
High extreme Temperature/High extreme Voltage (TH/VH).	+45℃	DC 4.2V
Note1: For all conditions, the humidity range is:40-75%, the pressure range is 86-106kPa.The High Voltage DC 4.2V 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

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 two SIM card slots(SIM1 and SIM2). The result for GSM/WCDMA/LTE card slot(SIM1) is the worst case which was only recorded.

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

Test Item	Uncertainty
Radio Frequency	0.9×10^{-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

FCC Registration Number is 254912.

Industry Canada Registration Number is 9642A.

EMSD Registration Number is ARCB0108.

UL Registration Number is 100571-492.

TUV SUD Registration Number is SCN1081.

TUV RH Registration Number is UA 50296516-001.

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier: CN0071.



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	:	Li Huan
Temperature/ Humidity:	:	23.6°C/ 54.1%

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 3.7V

TH: High extreme Temperature – +45°C

VH: High extreme Voltage – DC 4.2V

TL: Low extreme Temperature – -20°C

VL: Low extreme Voltage – DC 3.3V

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	158060009	2020-06-10	2021-06-09
3	MXA Signal Analyzer	Agilent	N9020A	MY51250905	2019-11-14	2020-11-13
4	DC Power Supply	Agilent	E3642A	N/A	2019-11-14	2020-11-13
5	MXG Vector Signal Generator	Agilent	N5182A	MY47071151	2020-06-10	2021-06-09
6	PSG Analog Signal Generator	Agilent	E8257D	MY4520521	2020-06-10	2021-06-09
7	Temperature & Humidity Chamber	GUANGZHOU GOGNWEN	GDS-100	70932	2019-10-09	2020-10-08
8	EMI Test Software	EZ	EZ-EMC	/	N/A	N/A
9	3m Fully Anechoic Chamber	MRDIANZI	FAC-3M	MR009	2019-09-27	2020-09-26
10	Positioning Controller	MF	MF-7082	/	2020-06-11	2021-06-10
11	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2019-07-25	2020-07-24
12	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2019-07-25	2020-07-24
13	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2020-06-30	2021-06-29
14	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2019-09-19	2020-09-18
15	Broadband Preamplifier	SCHWARZBECK	BBV 9719	9719-025	2019-09-19	2020-09-18
16	EMI Test Receiver	R&S	ESR 7	101181	2020-06-11	2021-06-10
17	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2019-11-14	2020-11-13
18	Broadband Preamplifier	phx	BP-01M18G	P190501	2020-06-30	2021-06-29
19	RF Cable-R03m	Jye Bao	RG142	CB021	2020-06-11	2021-06-10
20	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2020-06-11	2021-06-10
21	WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW 500	103818	2020-06-10	2021-06-09
22	RF Filter	Micro-Tronics	BRC50718	S/N-017	2020-06-10	2021-06-09
23	RF Filter	Micro-Tronics	BRC50719	S/N-011	2020-06-10	2021-06-09
24	RF Filter	Micro-Tronics	BRC50720	S/N-011	2020-06-10	2021-06-09
25	RF Filter	Micro-Tronics	BRC50721	S/N-013	2020-06-10	2021-06-09
26	RF Filter	Micro-Tronics	BRM50702	S/N-195	2020-06-10	2021-06-09
27	6dB Attenuator	/	100W/6dB	1172040	2020-06-10	2021-06-09
28	3dB Attenuator	/	2N-3dB	/	2020-06-10	2021-06-09
29	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2019-11-14	2020-11-13

Note: All equipment is calibrated through CHINA CEPREI LABORATORY and GUANGZHOU LISAI CALIBRATION AND TEST CO., LTD.



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	22.71	22.03
			max	22.29	21.57
		Partial	0	22.57	21.88
			max	22.53	21.90
	Mid Range	1	0	22.71	22.04
			max	22.88	22.19
		Partial	0	22.75	22.04
			max	22.83	22.10
	High Range	1	0	21.60	20.89
			max	21.51	20.72
		Partial	0	21.58	20.86
			max	21.57	20.91
20MHz	Low Range	1	0	22.61	21.92
			max	21.73	21.06
		Partial	0	22.47	21.79
			max	21.70	21.01
	Mid Range	1	0	22.79	22.11
			max	23.22	22.58
		Partial	0	22.74	22.09
			max	23.12	22.47
	High Range	1	0	22.69	21.95
			max	21.37	20.64
		Partial	0	22.54	21.90
			max	21.46	20.81



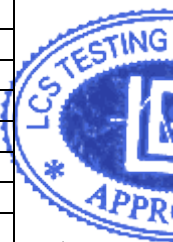
The Conducted Power Measurement Result for LTE Band					
Test Result for LTE Band 3					
Channel Bandwidth	Channel	RB Allocation		Average Power (dBm, QPSK)	Average Power (dBm, 16QAM)
		RB Size	RB Offset		
1.4MHz	Low Range	1	0	22.64	21.96
			max	22.26	21.53
		Partial	0	22.60	21.87
			max	22.52	21.83
	Mid Range	1	0	22.85	22.13
			max	22.92	22.17
		Partial	0	22.75	22.08
			max	22.77	22.02
	High Range	1	0	21.64	20.94
			max	21.56	20.77
		Partial	0	21.54	20.89
			max	21.56	20.93
5MHz	Low Range	1	0	22.61	21.92
			max	21.64	20.90
		Partial	0	22.39	21.67
			max	21.72	21.02
	Mid Range	1	0	22.70	21.98
			max	23.18	22.40
		Partial	0	22.66	21.97
			max	23.10	22.44
	High Range	1	0	22.70	22.00
			max	21.43	20.66
		Partial	0	22.50	21.85
			max	21.56	20.85
20MHz	Low Range	1	0	21.40	20.66
			max	21.55	20.82
		Partial	0	21.23	20.55
			max	22.10	21.45
	Mid Range	1	0	22.54	21.85
			max	24.04	23.37
		Partial	0	22.64	21.88
			max	23.99	23.25
	High Range	1	0	23.05	22.33
			max	20.63	19.87
		Partial	0	22.97	22.23
			max	21.61	20.91



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	22.74	22.06
			max	22.28	21.61
		Partial	0	22.53	21.82
			max	22.45	21.80
	Mid Range	1	0	22.75	22.11
			max	22.86	22.18
		Partial	0	22.68	22.01
			max	22.76	22.08
	High Range	1	0	21.65	20.93
			max	21.58	20.79
		Partial	0	21.51	20.78
			max	21.45	20.76
20MHz	Low Range	1	0	22.62	21.98
			max	21.77	21.07
		Partial	0	22.42	21.77
			max	21.77	21.14
	Mid Range	1	0	22.73	21.99
			max	23.20	22.52
		Partial	0	22.69	22.09
			max	23.04	22.40
	High Range	1	0	22.73	22.05
			max	21.44	20.74
		Partial	0	22.57	21.88
			max	21.49	20.79



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	22.62	21.88
			max	22.22	21.56
		Partial	0	22.60	21.83
			max	22.52	21.89
	Mid Range	1	0	22.83	22.13
			max	22.93	22.25
		Partial	0	22.75	22.02
			max	22.68	22.04
	High Range	1	0	21.60	20.87
			max	21.56	20.79
		Partial	0	21.51	20.77
			max	21.44	20.76
5MHz	Low Range	1	0	22.60	21.88
			max	21.73	20.99
		Partial	0	22.39	21.69
			max	21.75	21.07
	Mid Range	1	0	22.77	22.10
			max	23.26	22.51
		Partial	0	22.79	22.09
			max	23.05	22.34
	High Range	1	0	22.65	22.03
			max	21.37	20.68
		Partial	0	22.61	21.86
			max	21.48	20.80
10MHz	Low Range	1	0	21.39	20.62
			max	21.65	20.94
		Partial	0	21.21	20.52
			max	22.14	21.42
	Mid Range	1	0	22.51	21.83
			max	24.11	23.36
		Partial	0	22.56	21.93
			max	24.04	23.40
	High Range	1	0	23.03	22.37
			max	20.70	20.01
		Partial	0	22.88	22.13
			max	21.68	21.04





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	22.64	21.93
			max	22.22	21.45
		Partial	0	22.56	21.85
			max	22.41	21.75
	Mid Range	1	0	22.86	22.15
			max	22.88	22.17
		Partial	0	22.71	22.02
			max	22.79	22.09
	High Range	1	0	21.69	20.91
			max	21.60	20.87
		Partial	0	21.54	20.87
			max	21.46	20.76
20MHz	Low Range	1	0	22.52	21.86
			max	21.65	21.01
		Partial	0	22.42	21.72
			max	21.78	21.10
	Mid Range	1	0	22.77	22.08
			max	23.24	22.55
		Partial	0	22.72	22.07
			max	23.09	22.45
	High Range	1	0	22.58	21.86
			max	21.42	20.77
		Partial	0	22.57	21.78
			max	21.57	20.88



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)		
50.12	Horizontal	-79.48	-36.00	Pass
928.97	H	-77.39	-36.00	
3900.99	H	-65.04	-30.00	
5851.19	H	-51.88	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
60.00	Vertical	-73.44	-36.00	Pass
800.78	V	-74.30	-36.00	
3901.30	V	-68.12	-30.00	
5851.56	V	-56.95	-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)		
57.18	Horizontal	-79.97	-36.00	Pass
911.31	H	-74.87	-36.00	
3905.73	H	-61.17	-30.00	
5852.28	H	-60.03	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
54.15	Vertical	-79.65	-36.00	Pass
755.74	V	-79.09	-36.00	
3905.13	V	-69.77	-30.00	
5851.32	V	-55.54	-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)		
53.10	Horizontal	-72.39	-36.00	Pass
942.07	H	-75.04	-36.00	
3904.04	H	-62.30	-30.00	
5854.36	H	-60.24	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
60.48	Vertical	-80.49	-36.00	Pass
829.27	V	-80.46	-36.00	
3903.98	V	-61.21	-30.00	
5850.94	V	-56.04	-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)		
51.07	Horizontal	-80.82	-36.00	Pass
783.67	H	-78.11	-36.00	
3904.21	H	-68.65	-30.00	
5851.02	H	-59.81	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
54.79	Vertical	-76.15	-36.00	Pass
845.00	V	-71.79	-36.00	
3905.34	V	-60.72	-30.00	
5853.00	V	-58.37	-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)		
56.53	Horizontal	-78.71	-36.00	Pass
922.54	H	-77.22	-36.00	
3503.65	H	-65.98	-30.00	
5250.96	H	-57.84	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
52.66	Vertical	-71.28	-36.00	Pass
889.75	V	-70.28	-36.00	
3502.90	V	-69.45	-30.00	
5252.93	V	-53.23	-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)		
59.60	Horizontal	-78.10	-36.00	Pass
923.43	H	-74.05	-36.00	
3501.80	H	-62.77	-30.00	
5251.97	H	-55.84	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
53.74	Vertical	-76.90	-36.00	Pass
798.65	V	-74.94	-36.00	
3500.23	V	-64.17	-30.00	
5251.40	V	-50.55	-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)		
52.03	Horizontal	-73.29	-36.00	Pass
701.06	H	-72.28	-36.00	
3505.02	H	-70.24	-30.00	
5254.89	H	-51.57	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
53.80	Vertical	-80.91	-36.00	Pass
716.21	V	-71.55	-36.00	
3502.56	V	-65.52	-30.00	
5253.26	V	-50.33	-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)		
54.53	Horizontal	-75.62	-36.00	Pass
915.87	H	-80.03	-36.00	
3504.66	H	-63.59	-30.00	
5253.10	H	-55.03	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
56.58	Vertical	-80.19	-36.00	Pass
853.19	V	-72.47	-36.00	
3502.93	V	-62.37	-30.00	
5255.30	V	-53.31	-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)		
54.03	Horizontal	-70.19	-36.00	Pass
970.49	H	-73.01	-36.00	
3501.61	H	-64.47	-30.00	
5251.45	H	-53.56	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
60.08	Vertical	-77.69	-36.00	Pass
827.52	V	-72.81	-36.00	
3502.72	V	-67.91	-30.00	
5250.58	V	-56.58	-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)		
50.90	Horizontal	-73.83	-36.00	Pass
900.15	H	-80.52	-36.00	
3503.45	H	-67.48	-30.00	
5251.94	H	-58.29	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
52.18	Vertical	-76.77	-36.00	Pass
725.36	V	-78.93	-36.00	
3502.56	V	-65.37	-30.00	
5255.85	V	-56.06	-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)		
59.88	Horizontal	-70.53	-36.00	Pass
949.77	H	-80.24	-36.00	
5071.25	H	-62.27	-30.00	
7690.71	H	-56.01	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
54.99	Vertical	-74.66	-36.00	Pass
889.44	V	-72.02	-36.00	
5071.32	V	-70.37	-30.00	
7688.90	V	-50.62	-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)		
60.66	Horizontal	-70.86	-36.00	Pass
796.27	H	-70.82	-36.00	
5075.68	H	-63.95	-30.00	
7689.78	H	-50.90	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
53.88	Vertical	-72.29	-36.00	Pass
764.08	V	-77.87	-36.00	
5074.57	V	-60.37	-30.00	
7687.68	V	-58.80	-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)		
56.53	Horizontal	-74.34	-36.00	Pass
727.49	H	-77.56	-36.00	
5074.78	H	-60.02	-30.00	
7687.80	H	-60.53	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
56.25	Vertical	-73.21	-36.00	Pass
853.32	V	-79.75	-36.00	
5074.39	V	-64.77	-30.00	
7686.21	V	-52.81	-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)		
60.96	Horizontal	-77.26	-36.00	Pass
780.22	H	-76.88	-36.00	
5075.67	H	-67.50	-30.00	
7688.05	H	-50.65	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
56.58	Vertical	-75.58	-36.00	Pass
764.95	V	-79.94	-36.00	
5074.01	V	-61.59	-30.00	
7688.35	V	-51.93	-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)		
50.11	Horizontal	-74.39	-36.00	Pass
772.19	H	-78.69	-36.00	
1798.49	H	-62.11	-30.00	
2690.64	H	-51.14	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
57.59	Vertical	-71.05	-36.00	Pass
845.18	V	-73.20	-36.00	
1793.00	V	-60.47	-30.00	
2693.37	V	-59.01	-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)		
51.73	Horizontal	-80.89	-36.00	Pass
932.36	H	-79.93	-36.00	
1796.78	H	-63.87	-30.00	
2694.20	H	-51.56	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
54.56	Vertical	-74.78	-36.00	Pass
992.72	V	-74.77	-36.00	
1798.19	V	-61.82	-30.00	
2692.89	V	-55.92	-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)		
59.56	Horizontal	-71.92	-36.00	Pass
828.52	H	-72.86	-36.00	
1793.26	H	-66.13	-30.00	
2695.37	H	-50.13	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
56.76	Vertical	-75.30	-36.00	Pass
857.94	V	-79.89	-36.00	
1793.24	V	-63.65	-30.00	
2694.94	V	-60.90	-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)		
57.01	Horizontal	-77.70	-36.00	Pass
882.01	H	-72.08	-36.00	
1796.61	H	-70.87	-30.00	
2690.15	H	-50.31	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
56.92	Vertical	-72.75	-36.00	Pass
999.12	V	-79.52	-36.00	
1800.58	V	-68.24	-30.00	
2695.63	V	-52.92	-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)		
58.65	Horizontal	-79.92	-36.00	Pass
733.14	H	-74.87	-36.00	
1790.59	H	-68.21	-30.00	
2692.45	H	-54.61	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
58.82	Vertical	-75.51	-36.00	Pass
964.78	V	-75.76	-36.00	
1797.39	V	-70.38	-30.00	
2692.62	V	-53.81	-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)		
59.21	Horizontal	-75.21	-36.00	Pass
766.88	H	-78.48	-36.00	
1793.59	H	-63.18	-30.00	
2694.12	H	-57.88	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
56.84	Vertical	-70.18	-36.00	Pass
721.88	V	-77.08	-36.00	
1798.93	V	-68.55	-30.00	
2691.31	V	-52.71	-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)		
58.43	Horizontal	-74.02	-36.00	Pass
957.73	H	-72.43	-36.00	
1696.40	H	-70.69	-30.00	
2542.11	H	-51.32	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
56.42	Vertical	-79.36	-36.00	Pass
860.20	V	-79.44	-36.00	
1694.10	V	-66.34	-30.00	
2540.82	V	-59.67	-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)		
57.45	Horizontal	-74.98	-36.00	Pass
747.83	H	-70.33	-36.00	
1694.72	H	-60.10	-30.00	
2543.51	H	-52.50	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
59.47	Vertical	-75.56	-36.00	Pass
990.53	V	-72.04	-36.00	
1691.78	V	-66.11	-30.00	
2542.54	V	-60.04	-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)		
56.51	Horizontal	-77.94	-36.00	Pass
976.89	H	-70.04	-36.00	
1700.11	H	-62.47	-30.00	
2545.33	H	-59.22	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
59.71	Vertical	-70.82	-36.00	Pass
744.06	V	-75.69	-36.00	
1700.88	V	-69.89	-30.00	
2541.23	V	-54.96	-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)		
60.36	Horizontal	-78.46	-36.00	Pass
955.02	H	-77.19	-36.00	
1700.10	H	-61.26	-30.00	
2542.36	H	-53.31	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
53.09	Vertical	-74.54	-36.00	Pass
858.11	V	-79.52	-36.00	
1700.49	V	-60.75	-30.00	
2543.47	V	-54.89	-30.00	



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