

FCC RF Test Report

(LTE)

Applicant: INFINIX MOBILITY LIMITED

Address of Applicant: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE
19-25 SHAN MEI STREET FOTAN NT HONGKONG

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: X669

Trade Mark: Infinix

FCC ID: 2AIZN-X669

Applicable Standards: FCC CFR Title 47 Part 2, 22H, 24E, 27L&M

Date of Sample Receipt: 15 Dec., 2022

Date of Test: 16 Dec., 2022 to 09 Jan., 2023

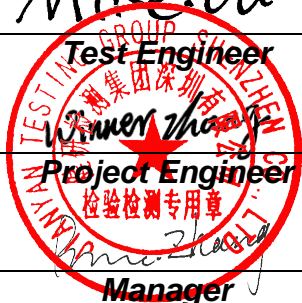
Date of Report Issued: 18 Jan., 2023

Test Result: PASS

Tested by: Mike.OU **Date:** 18 Jan., 2023
Test Engineer

Reviewed by: Wenwen Zhang **Date:** 18 Jan., 2023
Project Engineer

Approved by: Wenwen Zhang **Date:** 18 Jan., 2023
Manager



This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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1 Version

Version No.	Date	Description
00	18 Jan., 2023	Original

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3 General Information

3.1 Client Information

Applicant:	INFINIX MOBILITY LIMITED
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Manufacturer:	INFINIX MOBILITY LIMITED
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Factory:	SHENZHEN TECNO TECHNOLOGY CO., LTD.
Address:	101, Building 24, Waijing Industrial Park, Fumin Community, Fucheng Street, Longhua District, Shenzhen City, P.R.China

3.2 General Description of E.U.T.

Product Name:	Mobile Phone	
Model No.:	X669	
Operation Frequency Range:	LTE band 2:	Tx: 1850 MHz - 1910 MHz Rx: 1930 MHz - 1990 MHz
	LTE band 4:	Tx: 1710 MHz - 1755 MHz Rx: 2110 MHz - 2155 MHz
	LTE band 5:	Tx: 824 MHz - 849 MHz Rx: 869 MHz - 894 MHz
	LTE band 7:	Tx: 2500 MHz - 2570 MHz Rx: 2620 MHz - 2690 MHz
	LTE band 38:	Tx: 2570 MHz - 2620 MHz Rx: 2570 MHz - 2620 MHz
	LTE band 41:	Tx: 2535 MHz - 2655 MHz Rx: 2535 MHz - 2655 MHz
Modulation Type:	<input checked="" type="checkbox"/> QPSK <input checked="" type="checkbox"/> 16QAM <input checked="" type="checkbox"/> 64QAM	
Antenna Type:	Internal Antenna	
Antenna Gain:	LTE band 2:	-1.5 dBi (declare by Applicant)
	LTE band 4:	-2.8 dBi (declare by Applicant)
	LTE band 5:	-6.9 dBi (declare by Applicant)
	LTE band 7:	0.48 dBi (declare by Applicant)
	LTE band 38:	0.48 dBi (declare by Applicant)
	LTE band 41:	0.48 dBi (declare by Applicant)
Power Supply:	Rechargeable Li-ion Polymer Battery DC3.85V, 4900mAh	
AC Adapter:	Model: U180XSA Input: AC100-240V, 50/60Hz, 0.6A Output: DC 5.0V, 2.4A or 7.5V, 2.4A 18.0W Max	
Test Sample Condition:	The test samples were provided in good working order with no visible defects.	

3.3 Test Mode and Environment

Test Mode:	
QPSK mode:	Keep the EUT communication with simulated station in QPSK mode
16QAM mode:	Keep the EUT communication with simulated station in 16QAM mode
64QAM mode:	Keep the EUT communication with simulated station in 64QAM mode
Remark: The EUT has been tested under continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing. The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for these modes. Just the worst case position (H mode) shown in report.	
Operating Environment:	
Temperature:	Normal: 15°C ~ 35°C, Extreme: -30°C ~ +55°C
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar
Voltage:	Nominal: 3.85 Vdc, Extreme: Low 3.45 Vdc, High 4.40 Vdc

3.4 Description of Test Auxiliary Equipment

Test Equipment	Manufacturer	Model No.	Serial No.
Simulated Station	Anritsu	MT8820C	6201026545

3.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Radiated Emission (30MHz ~ 1GHz) (3m SAC)	3.8 dB
Radiated Emission (1GHz ~ 18GHz) (3m SAC)	3.6 dB
Radiated Emission (18GHz ~ 40GHz) (3m SAC)	5.34 dB
Note: All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.	

3.6 Additions to, Deviations, or Exclusions from the Method

No

3.7 Laboratory Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> ● FCC - Designation No.: CN1211 JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551. ● ISED – CAB identifier.: CN0021 The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1. ● CNAS - Registration No.: CNAS L15527 JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527. ● A2LA - Registration No.: 4346.01 This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf
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3.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: <http://jyt.lets.com>

3.9 Test Instruments List

Reference report JYTSZ-R12-2202467, FCC ID: 2AIZN-X669D.

4 Measurement Setup and Procedure

4.1 Test Channel

According to ANSI C63.26-2015 chapter 5.1.2.1 Table 2 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

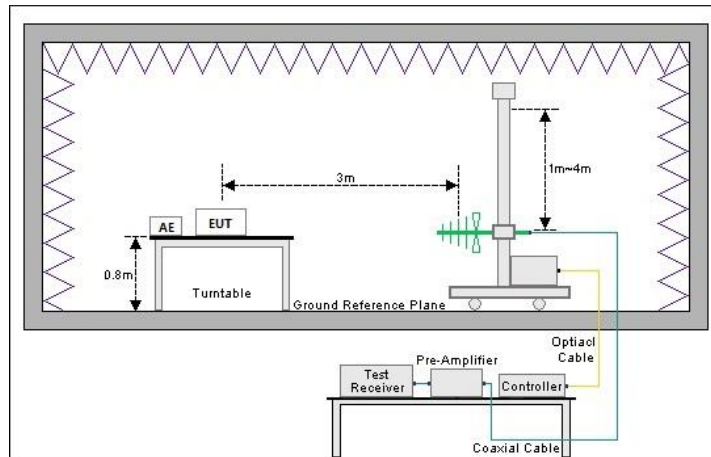
LTE band 2					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
1.4 MHz			3 MHz		
Lowest channel	18607	1850.7	Lowest channel	18915	1851.5
Middle channel	18900	1880.0	Middle channel	18900	1880.0
Highest channel	19193	1909.3	Highest channel	19185	1908.5
5 MHz			10 MHz		
Lowest channel	18625	1852.5	Lowest channel	18650	1855.0
Middle channel	18900	1880.0	Middle channel	18900	1880.0
Highest channel	19175	1907.5	Highest channel	19150	1905.0
15 MHz			20 MHz		
Lowest channel	18675	1857.5	Lowest channel	18700	1860.0
Middle channel	18900	1880.0	Middle channel	18900	1880.0
Highest channel	19125	1902.5	Highest channel	19100	1900.0
LTE band 4					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
1.4 MHz			3 MHz		
Lowest channel	19957	1710.7	Lowest channel	19965	1711.5
Middle channel	20175	1732.5	Middle channel	20175	1732.5
Highest channel	20393	1754.3	Highest channel	20385	1753.5
5 MHz			10 MHz		
Lowest channel	19975	1712.5	Lowest channel	20000	1715.0
Middle channel	20175	1732.5	Middle channel	20175	1732.5
Highest channel	20375	1752.5	Highest channel	20350	1750.0
15 MHz			20 MHz		
Lowest channel	20025	1717.5	Lowest channel	20050	1720.0
Middle channel	20175	1732.5	Middle channel	20175	1732.5
Highest channel	20325	1747.5	Highest channel	20300	1745.0
LTE band 5					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
1.4 MHz			3 MHz		
Lowest channel	20407	824.7	Lowest channel	20415	825.5
Middle channel	20525	836.5	Middle channel	20525	836.5
Highest channel	20643	848.3	Highest channel	20635	847.5
5 MHz			10 MHz		
Lowest channel	20425	826.5	Lowest channel	20450	829.0
Middle channel	20525	836.5	Middle channel	20525	836.5
Highest channel	20625	846.5	Highest channel	20600	844.0

LTE band 7					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
5 MHz			10 MHz		
Lowest channel	20775	2502.5	Lowest channel	20800	2505.0
Middle channel	21100	2535.0	Middle channel	21100	2535.0
Highest channel	21425	2567.5	Highest channel	21400	2565.0
15 MHz			20 MHz		
Lowest channel	20825	2507.5	Lowest channel	20850	2510.0
Middle channel	21100	2535.0	Middle channel	21100	2535.0
Highest channel	21375	2562.5	Highest channel	21350	2560.0
LTE band 41 Include LTE band 38					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
5 MHz			10 MHz		
Lowest channel	40065	2537.50	Lowest channel	40090	2540.00
Middle channel	40640	2595.00	Middle channel	40640	2595.00
Highest channel	41215	2652.50	Highest channel	41190	2650.00
15 MHz			20 MHz		
Lowest channel	40115	2542.50	Lowest channel	40140	2545.00
Middle channel	40640	2595.00	Middle channel	40640	2595.00
Highest channel	41165	2647.50	Highest channel	41140	2645.00

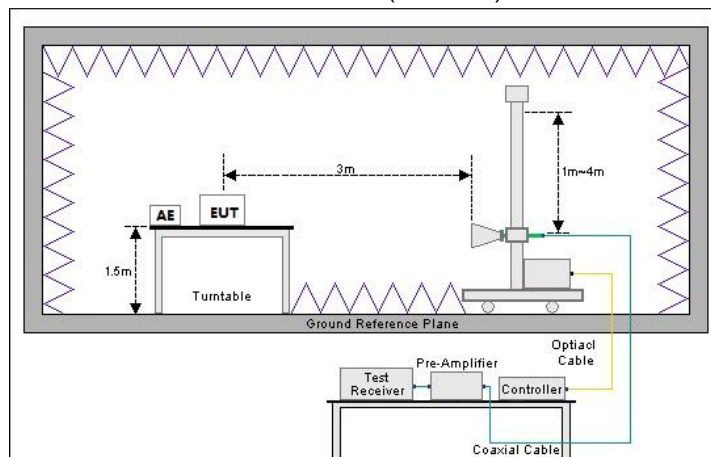
4.2 Test Setup

1) Radiated emission measurement:

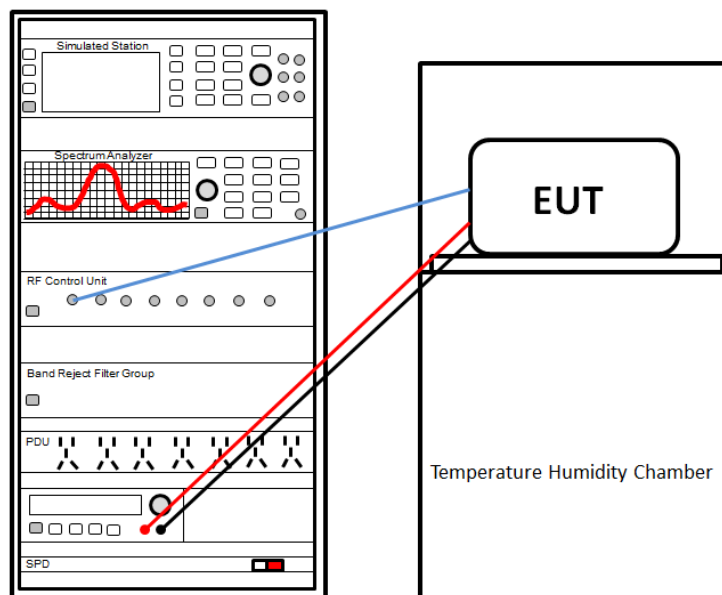
Below 1GHz (3m SAC)



Above 1GHz (3m SAC)



2) Conducted test method



4.3 Test Procedure

Test method	Test step
Radiated emission	<p>For below 1GHz:</p> <ol style="list-style-type: none"> The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m. EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data. <p>For above 1GHz:</p> <ol style="list-style-type: none"> The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m. EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.
Conducted test method	<ol style="list-style-type: none"> The LTE antenna port of EUT was connected to the test port of the test system through an RF cable. The EUT is keeping in continuous transmission mode and tested in all modulation modes. Open the test software, prepare a test plan, and control the system through the software. After the test is completed, the test report is exported through the test software.

5 Test Results

5.1 Summary

5.1.1 Clause and Data Summary

This report is revised according to JYTSZ-R12-2202467 report, FCC ID: 2AIZN-X669D issued by Shenzhen Jianyan Testing Group Co., Ltd. Difference: Update model and FCC ID, product appearance color, Remove NFC antenna and NFC chip, and memory chip difference. So no need to retest.

Test items	Standard clause	Test data	Result
RF Exposure (SAR)	Part 1.1307 Part 2.1093	See SAR Report	Pass
RF Output Power	Part 2.1046 Part 22.913 (a)(5) Part 24.232 (c) Part 27.50 (d)(4) Part 27.50 (h)(2)	Reference report JYTSZ-R12-2202467, FCC ID: 2AIZN-X669D	Pass*
Peak-to-Average Power Ratio	Part 24.232 (d) Part 27.50 (d)(5)	Reference report JYTSZ-R12-2202467, FCC ID: 2AIZN-X669D	Pass*
Modulation Characteristics	Part 2.1047	Reference report JYTSZ-R12-2202467, FCC ID: 2AIZN-X669D	Pass*
26dB Emission Bandwidth 99% Occupied Bandwidth	Part 2.1049	Reference report JYTSZ-R12-2202467, FCC ID: 2AIZN-X669D	Pass*
Out of Band Emission at Antenna Terminals	Part 2.1051 Part 22.917 (a) Part 24.238 (a) Part 27.53 (h) Part 27.53 (m)(4)	Reference report JYTSZ-R12-2202467, FCC ID: 2AIZN-X669D	Pass*
Field Strength of Spurious Radiation	Part 2.1053 Part 22.917 (a) Part 24.238 (a) Part 27.53 (h) Part 27.53 (m)(4)	Reference report JYTSZ-R12-2202467, FCC ID: 2AIZN-X669D	Pass*
Frequency Stability vs. Temperature	Part 2.1055 (a)(1)(b) Part 22.355 Part 24.235 Part 27.54	Reference report JYTSZ-R12-2202467, FCC ID: 2AIZN-X669D	Pass*
Frequency Stability vs. Voltage	Part 2.1055 (d)(2) Part 22.355 Part 24.235 Part 27.54	Reference report JYTSZ-R12-2202467, FCC ID: 2AIZN-X669D	Pass*
Remark:			
1. Pass*: The test data please refer to report JYTSZ-R12-2202467, FCC ID: 2AIZN-X669D.			
2. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (Fundamental Frequency below 1GHz)/1.0dB (Fundamental Frequency above 1GHz) (provided by the customer).			
Test Method:	ANSI/TIA-603-E-2016 ANSI C63.26-2015		

5.1.2 Test Limit

Test items	Limit																																
RF Output Power	<p>LTE band 2/7/38/41: 2W EIRP</p> <p>LTE band 4: 1W EIRP</p> <p>LTE band 5: 7W ERP</p>																																
Peak-to-Average Power Ratio	<p>LTE band 2/4:The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB</p> <p>Other bands: N/A report only</p>																																
Modulation Characteristics	N/A																																
26dB Emission Bandwidth 99% Occupied Bandwidth	N/A																																
Out of Band Emission at Antenna Terminals Field Strength of Spurious Radiation	<p>LTE band 2, 4, 5: The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.</p> <p>LTE band 7, 38, 41: For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz.</p>																																
Frequency Stability vs. Temperature Frequency Stability vs. Voltage	<p>LTE band 2: The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.</p> <p>LTE band 4, 7, 38, 41: The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.</p> <p>LTE band 5: Except as otherwise provided in this part, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C-1 of this section.</p> <p style="text-align: center;">TABLE C-1—FREQUENCY TOLERANCE FOR TRANSMITTERS IN THE PUBLIC MOBILE SERVICES</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Frequency range (MHz)</th> <th>Base, fixed (ppm)</th> <th>Mobile >3 watts (ppm)</th> <th>Mobile ≤3 watts (ppm)</th> </tr> </thead> <tbody> <tr> <td>25 to 50</td> <td></td> <td>20.0</td> <td>50.0</td> </tr> <tr> <td>50 to 450</td> <td></td> <td>5.0</td> <td>50.0</td> </tr> <tr> <td>450 to 512</td> <td></td> <td>2.5</td> <td>5.0</td> </tr> <tr> <td>821 to 896</td> <td></td> <td>1.5</td> <td>2.5</td> </tr> <tr> <td>928 to 929</td> <td></td> <td>5.0</td> <td>n/a</td> </tr> <tr> <td>929 to 960</td> <td></td> <td>1.5</td> <td>n/a</td> </tr> <tr> <td>2110 to 2220</td> <td></td> <td>10.0</td> <td>n/a</td> </tr> </tbody> </table>	Frequency range (MHz)	Base, fixed (ppm)	Mobile >3 watts (ppm)	Mobile ≤3 watts (ppm)	25 to 50		20.0	50.0	50 to 450		5.0	50.0	450 to 512		2.5	5.0	821 to 896		1.5	2.5	928 to 929		5.0	n/a	929 to 960		1.5	n/a	2110 to 2220		10.0	n/a
Frequency range (MHz)	Base, fixed (ppm)	Mobile >3 watts (ppm)	Mobile ≤3 watts (ppm)																														
25 to 50		20.0	50.0																														
50 to 450		5.0	50.0																														
450 to 512		2.5	5.0																														
821 to 896		1.5	2.5																														
928 to 929		5.0	n/a																														
929 to 960		1.5	n/a																														
2110 to 2220		10.0	n/a																														

5.2 Test Results

5.2.1 RF Output Power Spot-check.

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	1.4MHz	QPSK	18900	1RB#0	23.51	22.01	33.01	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	23.39	21.89	33.01	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	23.52	22.02	33.01	PASS
Band2	1.4MHz	QPSK	18900	3RB#0	23.34	21.84	33.01	PASS
Band2	1.4MHz	QPSK	18900	3RB#1	23.46	21.96	33.01	PASS
Band2	1.4MHz	QPSK	18900	3RB#2	23.45	21.95	33.01	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	22.38	20.88	33.01	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	22.71	21.21	33.01	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	22.52	21.02	33.01	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	22.59	21.09	33.01	PASS
Band2	1.4MHz	16QAM	18900	3RB#0	22.09	20.59	33.01	PASS
Band2	1.4MHz	16QAM	18900	3RB#1	22.15	20.65	33.01	PASS
Band2	1.4MHz	16QAM	18900	3RB#2	22.14	20.64	33.01	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	21.39	19.89	33.01	PASS
Band2	1.4MHz	64QAM	18900	1RB#0	22.21	20.71	33.01	PASS
Band2	1.4MHz	64QAM	18900	1RB#2	21.44	19.94	33.01	PASS
Band2	1.4MHz	64QAM	18900	1RB#5	21.52	20.02	33.01	PASS
Band2	1.4MHz	64QAM	18900	3RB#0	21.32	19.82	33.01	PASS
Band2	1.4MHz	64QAM	18900	3RB#1	21.36	19.86	33.01	PASS
Band2	1.4MHz	64QAM	18900	3RB#2	21.34	19.84	33.01	PASS
Band2	1.4MHz	64QAM	18900	6RB#0	20.59	19.09	33.01	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	22.04	19.24	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	22.05	19.25	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	22.08	19.28	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	22.17	19.37	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	22.17	19.37	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#2	22.17	19.37	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	21.09	18.29	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	21.94	19.14	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	21.97	19.17	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	21.97	19.17	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	20.86	18.06	30.00	PASS

Band4	1.4MHz	16QAM	20175	3RB#1	20.80	18	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#2	20.79	17.99	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	20.72	17.92	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	21.26	18.46	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	21.86	19.06	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	21.64	18.84	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#0	20.45	17.65	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#1	20.50	17.7	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#2	20.49	17.69	30.00	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	19.34	16.54	30.00	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.54	14.49	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.54	14.49	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.55	14.50	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.55	14.50	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.54	14.49	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#2	23.54	14.49	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.61	13.56	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.25	14.20	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.19	14.14	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.22	14.17	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.34	13.29	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	22.38	13.33	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#2	22.35	13.30	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.95	12.90	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	22.47	13.42	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	22.02	12.97	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	22.09	13.04	38.45	PASS
Band5	1.4MHz	64QAM	20525	3RB#0	22.05	13.00	38.45	PASS
Band5	1.4MHz	64QAM	20525	3RB#1	21.75	12.70	38.45	PASS
Band5	1.4MHz	64QAM	20525	3RB#2	22.12	13.07	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	20.62	11.57	38.45	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.17	22.65	38.45	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.20	22.68	38.45	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.20	22.68	38.45	PASS
Band7	5MHz	QPSK	21100	12RB#0	21.37	21.85	38.45	PASS
Band7	5MHz	QPSK	21100	12RB#6	21.31	21.79	38.45	PASS
Band7	5MHz	QPSK	21100	12RB#11	21.31	21.79	38.45	PASS
Band7	5MHz	QPSK	21100	25RB#0	21.34	21.82	38.45	PASS

Band7	5MHz	16QAM	21100	1RB#0	20.67	21.15	38.45	PASS
Band7	5MHz	16QAM	21100	1RB#12	20.73	21.21	38.45	PASS
Band7	5MHz	16QAM	21100	1RB#24	20.71	21.19	38.45	PASS
Band7	5MHz	16QAM	21100	12RB#0	20.49	20.97	38.45	PASS
Band7	5MHz	16QAM	21100	12RB#6	20.46	20.94	38.45	PASS
Band7	5MHz	16QAM	21100	12RB#11	20.46	20.94	38.45	PASS
Band7	5MHz	16QAM	21100	25RB#0	20.57	21.05	38.45	PASS
Band7	5MHz	64QAM	21100	1RB#0	19.81	20.29	38.45	PASS
Band7	5MHz	64QAM	21100	1RB#12	19.77	20.25	38.45	PASS
Band7	5MHz	64QAM	21100	1RB#24	19.78	20.26	38.45	PASS
Band7	5MHz	64QAM	21100	12RB#0	18.93	19.41	38.45	PASS
Band7	5MHz	64QAM	21100	12RB#6	18.89	19.37	38.45	PASS
Band7	5MHz	64QAM	21100	12RB#11	18.89	19.37	38.45	PASS
Band7	5MHz	64QAM	21100	25RB#0	19.11	19.59	38.45	PASS
Band41	5MHz	QPSK	40640	1RB#0	21.42	21.90	33.01	PASS
Band41	5MHz	QPSK	40640	1RB#12	21.42	21.90	33.01	PASS
Band41	5MHz	QPSK	40640	1RB#24	21.46	21.94	33.01	PASS
Band41	5MHz	QPSK	40640	12RB#0	20.58	21.06	33.01	PASS
Band41	5MHz	QPSK	40640	12RB#6	20.62	21.10	33.01	PASS
Band41	5MHz	QPSK	40640	12RB#11	20.51	20.99	33.01	PASS
Band41	5MHz	QPSK	40640	25RB#0	20.52	21.00	33.01	PASS
Band41	5MHz	16QAM	40640	1RB#0	20.54	21.02	33.01	PASS
Band41	5MHz	16QAM	40640	1RB#12	20.57	21.05	33.01	PASS
Band41	5MHz	16QAM	40640	1RB#24	20.42	20.90	33.01	PASS
Band41	5MHz	16QAM	40640	12RB#0	19.66	20.14	33.01	PASS
Band41	5MHz	16QAM	40640	12RB#6	19.69	20.17	33.01	PASS
Band41	5MHz	16QAM	40640	12RB#11	19.71	20.19	33.01	PASS
Band41	5MHz	16QAM	40640	25RB#0	19.51	19.99	33.01	PASS
Band41	5MHz	64QAM	40640	1RB#0	19.56	20.04	33.01	PASS
Band41	5MHz	64QAM	40640	1RB#12	19.74	20.22	33.01	PASS
Band41	5MHz	64QAM	40640	1RB#24	19.84	20.32	33.01	PASS
Band41	5MHz	64QAM	40640	12RB#0	18.36	18.84	33.01	PASS
Band41	5MHz	64QAM	40640	12RB#6	18.35	18.83	33.01	PASS
Band41	5MHz	64QAM	40640	12RB#11	18.37	18.85	33.01	PASS
Band41	5MHz	64QAM	40640	25RB#0	18.22	18.70	33.01	PASS

Remark: EIRP (dBm) = Conducted power (dBm) + Antenna Gain (dBi). (For Band 2 & 7 & 41)
 ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For Band 5)

5.2.2 Radiated spurious emissions Spot-check.

LTE band 2 – 1.4MHz bandwidth						
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3760.00	-41.60	-1.06	-42.66	-13.00	29.66	Vertical
5640.00	-45.76	7.14	-38.62	-13.00	25.62	Vertical
7520.00	-52.10	11.47	-40.63	-13.00	27.63	Vertical
3760.00	-40.10	-1.55	-41.65	-13.00	28.65	Horizontal
5640.00	-44.81	4.45	-40.36	-13.00	27.36	Horizontal
7520.00	-52.59	9.98	-42.61	-13.00	29.61	Horizontal
LTE band 4 – 1.4MHz bandwidth						
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3465.00	-41.92	-3.15	-45.07	-13.00	32.07	Vertical
5197.50	-46.16	3.90	-42.26	-13.00	29.26	Vertical
6930.00	-52.26	10.67	-41.59	-13.00	28.59	Vertical
3465.00	-39.87	-3.25	-43.12	-13.00	30.12	Horizontal
5197.50	-44.93	3.40	-41.53	-13.00	28.53	Horizontal
6930.00	-52.89	9.35	-43.54	-13.00	30.54	Horizontal
LTE band 5 – 1.4MHz bandwidth						
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1673.30	-41.30	-11.39	-52.69	-13.00	39.69	Vertical
2509.50	-45.81	-6.70	-52.51	-13.00	39.51	Vertical
3346.00	-52.37	-5.17	-57.54	-13.00	44.54	Vertical
1673.30	-40.15	-11.48	-51.63	-13.00	38.63	Horizontal
2509.50	-44.34	-6.40	-50.74	-13.00	37.74	Horizontal
3346.00	-52.84	-4.96	-57.80	-13.00	44.80	Horizontal

LTE band 7 – 5MHz bandwidth						
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5070.00	-41.25	4.68	-36.57	-25.00	11.57	Vertical
7605.00	-46.21	11.22	-34.99	-25.00	9.99	Vertical
10140.00	-51.86	17.42	-34.44	-25.00	9.44	Vertical
5070.00	-39.87	4.23	-35.64	-25.00	10.64	Horizontal
7605.00	-44.83	10.04	-34.79	-25.00	9.79	Horizontal
10140.00	-52.87	16.47	-36.40	-25.00	11.40	Horizontal
LTE band 41 – 5MHz bandwidth						
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5186.00	-41.95	4.21	-37.74	-25.00	12.74	Vertical
7779.00	-45.66	11.34	-34.32	-25.00	9.32	Vertical
10372.00	-51.76	18.38	-33.38	-25.00	8.38	Vertical
5186.00	-40.49	3.72	-36.77	-25.00	11.77	Horizontal
7779.00	-44.82	10.86	-33.96	-25.00	8.96	Horizontal
10372.00	-52.25	17.10	-35.15	-25.00	10.15	Horizontal

-----End of report-----