FCC RF Test Report

(LTE)

Applicant:	SHENZHEN TRANSCHAN TECHNOLOGY LIMITED
Address of Applicant:	Room 03, 23/F, Unit B Building, No 9, Shenzhen Bay Eco - Technology Park, Yuehai Street, Nanshan District, Shenzhen, China
Equipment Under Test (EUT)	
Product Name:	Mobile Phone
Model No.:	A631LO
Trade Mark:	VIMOQ
FCC ID:	2A5RQ-A631LO
Applicable Standards:	FCC CFR Title 47 Part 2, 22H, 24E, 27L&M &H&90S
Date of Sample Receipt:	21 Sep., 2022
Date of Test:	22 Sep., to 27 Oct., 2022
Date of Report Issued:	28 Oct., 2022
Test Result:	PASS

Tested by:	Mike.ou ***Test Engineer***	***Date:***	*28 Oct., 2022*
Reviewed by:	Winner Zhang ***Project Engineer***	***Date:***	*28 Oct., 2022*
Approved by:	Manager ***Manager***	***Date:***	*28 Oct., 2022*

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	*28 Oct., 2022*	*Original*

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3 General Information

3.1 Client Information

Applicant:	SHENZHEN TRANSCHAN TECHNOLOGY LIMITED
Address:	Room 03, 23/F, Unit B Building, No 9, Shenzhen Bay Eco -Technology Park, Yuehai Street, Nanshan District, Shenzhen, China
Manufacturer:	SHENZHEN TRANSCHAN TECHNOLOGY LIMITED
Address:	Room 03, 23/F, Unit B Building, No 9, Shenzhen Bay Eco -Technology Park, Yuehai Street, Nanshan District, Shenzhen, China
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.:	A631LO		
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 12:	Tx: 699 MHz - 716 MHz	Rx: 729 MHz - 746 MHz
	LTE band 17:	Tx: 704 MHz - 716 MHz	Rx: 734 MHz - 746 MHz
	LTE Band 26:	Tx: 814MHz-849MHz	Rx: 859MHz-894MHz
	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
	LTE band 66:	Tx: 1710 MHz - 1780 MHz	Rx: 2110 MHz - 2200 MHz
Modulation Type:	☒QPSK	☒16QAM	☒64QAM
Antenna Type:	Internal Antenna		
Antenna Gain:	LTE band 2:	0.81 dBi (declare by Applicant)	
	LTE band 4:	-1.16 dBi (declare by Applicant)	
	LTE band 5:	-1.28 dBi (declare by Applicant)	
	LTE band 7:	0.69 dBi (declare by Applicant)	
	LTE band 12:	-1.52 dBi (declare by Applicant)	
	LTE band 17:	-1.41 dBi (declare by Applicant)	
	LTE band 26:	-1.34 dBi (declare by Applicant)	
	LTE band 38:	0.57 dBi (declare by Applicant)	
	LTE band 41:	0.61 dBi (declare by Applicant)	
	LTE band 66:	-0.71 dBi (declare by Applicant)	
Power Supply:	Rechargeable Li-ion Battery DC3.85V, 3850mAh		
AC Adapter:	Model: U050VSA Input: AC100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 1.0A		
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:

1. *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.*
2. *Cuz the output power of 64QAM mode is less than 16QAM mode, Just the worst case(16QAM mode) shown in report.*

Operating Environment:	
Temperature:	Normal: 15℃ ~ 35℃, Extreme: -30℃ ~ +50℃
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar
Voltage:	Nominal: 3.85 Vdc, Extreme: Low 3.50 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)	±4.45 dB
Radiated Emission (1GHz ~ 18GHz) (3m SAC)	±5.34 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

The test facility is recognized, certified, or accredited by the following organizations:

- **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

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

Radiated Emission(3m SAC):

Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	WXJ001-1	04-14-2021	04-13-2024
Loop Antenna	Schwarzbeck	FMZB 1519 B	WXJ002-4	03-07-2022	03-06-2023
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	03-08-2022	03-07-2023
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	07-02-2021	07-01-2024
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	03-08-2022	03-07-2023
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	04-07-2022	04-06-2023
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	04-07-2022	04-06-2023
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-6	04-07-2022	04-06-2023
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	01-20-2022	01-19-2023
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXJ001-3	01-20-2022	01-19-2023
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	03-30-2022	03-29-2023
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	03-05-2022	03-04-2023
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	01-20-2022	01-19-2023
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	10-27-2021	10-26-2022
				10-17-2022	10-16-2023
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	01-20-2022	01-19-2023
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	01-20-2022	01-19-2023
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG001-7	01-20-2022	01-19-2023
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

Conducted Method:

Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Spectrum Analyzer	Keysight	N9020B	WXJ081-1	06-29-2022	06-28-2023
Simulated Station	Rohde & Schwarz	CMW500	WXJ081	06-29-2022	06-28-2023
Temperature Humidity Chamber	ZHONG ZHI	CZ-A-80D	WXJ032-3	03-19-2021	03-18-2023
DC Power Supply	Keysight	E3642A	WXJ025-2	N/A	
RF Control Unit	Tonscend	JS0806-1	WXG010	N/A	
Band Reject Filter Group	Tonscend	JS0806-F	WXG010-1	N/A	
Test Software	Tonscend	TS+	Version: 2.6.9.0526		

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 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 12					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
1.4 MHz			**3 MHz**		
Lowest channel	23017	699.70	Lowest channel	23025	700.50
Middle channel	23095	707.50	Middle channel	23095	707.50
Highest channel	23173	715.30	Highest channel	23165	714.50
5 MHz			**10 MHz**		
Lowest channel	23035	701.50	Lowest channel	23060	704.00
Middle channel	23095	707.50	Middle channel	23095	707.50
Highest channel	23155	713.50	Highest channel	23130	711.00
LTE band 17					
5 MHz			**10 MHz**		
Lowest channel	23755	706.50	Lowest channel	23780	709.00
Middle channel	23790	710.00	Middle channel	23790	710.00
Highest channel	23825	713.50	Highest channel	23800	711.00
LTE band 26 For Part 22 Include LTE band 5					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
1.4 MHz			**3 MHz**		
Lowest channel	26797	824.7	Lowest channel	26805	825.5
Middle channel	26915	836.5	Middle channel	26915	836.5
Highest channel	27033	848.3	Highest channel	27025	847.5
5 MHz			**10 MHz**		
Lowest channel	26815	826.5	Lowest channel	26840	829.0
Middle channel	26915	836.5	Middle channel	26915	836.5
Highest channel	27015	846.5	Highest channel	26990	844.0
15 MHz					
Lowest channel	26865	831.5			
Middle channel	26915	836.5			
Highest channel	26965	841.5			
LTE band 26 For Part 90					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
1.4 MHz			**3 MHz**		
Lowest channel	26697	814.7	Lowest channel	26705	815.5
Middle channel	26740	819.0	Middle channel	26740	819.0
Highest channel	26783	823.3	Highest channel	26775	822.5
5 MHz			**10 MHz**		
Lowest channel	26715	816.5	Lowest channel	/	/
Middle channel	26740	819.0	Middle channel	26740	819.0
Highest channel	26765	821.5	Highest channel	/	/

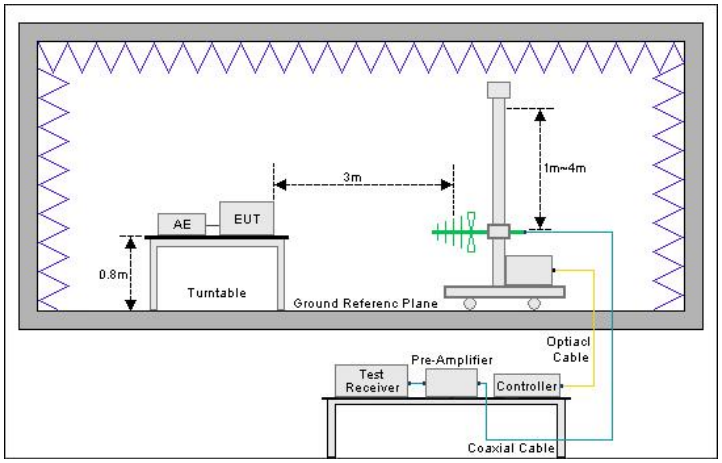
LTE band 41 Include LTE band 38					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
5 MHz			**10 MHz**		
Lowest channel	40065	2537.50	Lowest channel	40090	2540.00
Middle channel	40640	2595.00	Middle channel	40640	2595.00
Highest channel	41215	2652.50	Highest channel	41190	2650.00
15 MHz			**20 MHz**		
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

LTE band 66 Include LTE band 4					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
1.4 MHz			**3 MHz**		
Lowest channel	131979	1710.7	Lowest channel	131987	1711.5
Middle channel	132322	1745.0	Middle channel	132322	1745.0
Highest channel	132665	1779.3	Highest channel	132657	1778.5
5 MHz			**10 MHz**		
Lowest channel	131997	1712.5	Lowest channel	132022	1715.0
Middle channel	132322	1745.5	Middle channel	132322	1745.0
Highest channel	132647	1777.5	Highest channel	132622	1775.0
15 MHz			**20 MHz**		
Lowest channel	132047	1717.5	Lowest channel	132072	1720.0
Middle channel	132322	1745.0	Middle channel	132322	1745.0
Highest channel	132597	1772.5	Highest channel	132572	1770.0

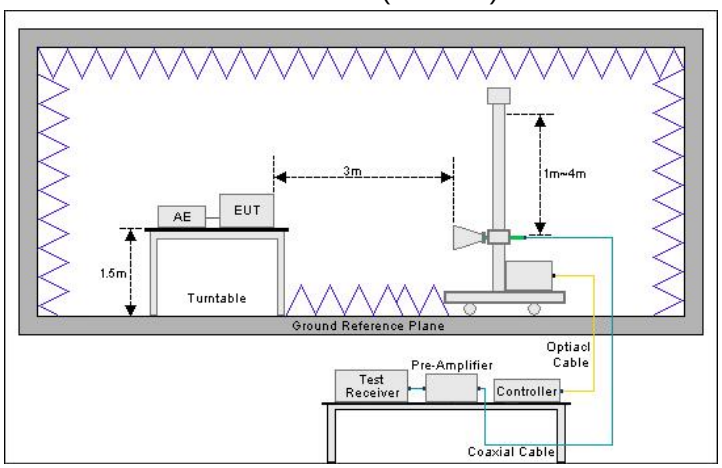
4.2 Test Setup

1) Radiated emission measurement:

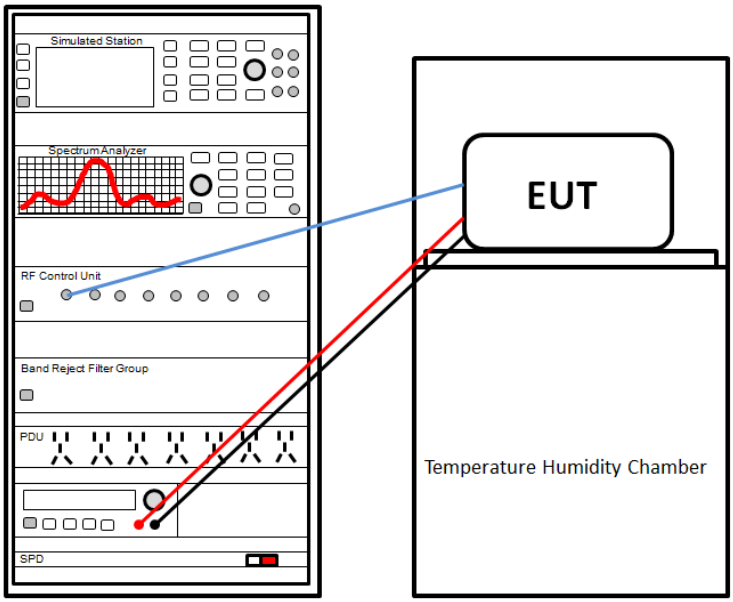
Below 1GHz (3m SAC)



Above 1GHz (3m SAC)



2) Conducted test method



4.3 Test Procedure

Test method	Test step
Radiated emission	**For below 1GHz:** 1. 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. 2. 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. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data. **For above 1GHz:** 1. 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. 2. 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. 3. 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	1. The LTE antenna port of EUT was connected to the test port of the test system through an RF cable. 2. The EUT is keeping in continuous transmission mode and tested in all modulation modes. 3. 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

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 (c)(10) Part 27.50 (d)(4) Part 27.50 (h)(2)	Appendix – LTE	Pass
Peak-to-Average Power Ratio	Part 24.232 (d) Part 27.50 (d)(5)	Appendix – LTE	Pass
Modulation Characteristics	Part 2.1047	Appendix – LTE	Pass
26dB Emission Bandwidth 99% Occupied Bandwidth	Part 2.1049	Appendix – LTE	Pass
Out of Band Emission at Antenna Terminals	Part 2.1051 Part 22.917 (a) Part 24.238 (a) Part 27.53 (g) Part 27.53 (h) Part 27.53 (m)(4)	Appendix – LTE	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 22.917 (a) Part 24.238 (a) Part 27.53 (g) Part 27.53 (h) Part 27.53 (m)(4)	See Section 5.2	Pass
Frequency Stability vs. Temperature	Part 2.1055 (a)(1)(b) Part 22.355 Part 24.235 Part 27.54	Appendix – LTE	Pass
Frequency Stability vs. Voltage	Part 2.1055 (d)(2) Part 22.355 Part 24.235 Part 27.54	Appendix – LTE	Pass

Remark:

1. *Pass: The EUT complies with the essential requirements in the standard.*
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

<table>
<tr><th>Test items</th><th>Limit</th></tr>
<tr><td>RF Output Power</td><td>LTE band 2/7/38/41: 2W EIRP
LTE band 4/66: 1W EIRP
LTE band 5/26: 7W ERP
LTE band 12/17: 3W ERP</td></tr>
<tr><td>Peak-to-Average Power Ratio</td><td>LTE band 2/4/26:The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB
Other bands: N/A report only</td></tr>
<tr><td>Modulation Characteristics</td><td>N/A</td></tr>
<tr><td>26dB Emission Bandwidth
99% Occupied Bandwidth</td><td>N/A</td></tr>
<tr><td>Out of Band Emission at Antenna Terminals

Field Strength of Spurious Radiation</td><td>LTE band 2, 4, 5, 12, 17, 26, 66:
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.

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 that 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.</td></tr>
<tr><td>Frequency Stability vs. Temperature

Frequency Stability vs. Voltage</td><td>LTE band 2:
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

LTE band 4, 7, 12, 17, 38, 41, 66:
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

LTE band 5, 26:
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.
TABLE C-1—FREQUENCY TOLERANCE FOR TRANSMITTERS IN THE PUBLIC MOBILE SERVICES
<table><tr><th>Frequency range (MHz)</th><th>Base, fixed (ppm)</th><th>Mobile >3 watts (ppm)</th><th>Mobile ≤3 watts (ppm)</th></tr><tr><td>25 to 50</td><td>20.0</td><td>20.0</td><td>50.0</td></tr><tr><td>50 to 450</td><td>5.0</td><td>5.0</td><td>50.0</td></tr><tr><td>450 to 512</td><td>2.5</td><td>5.0</td><td>5.0</td></tr><tr><td>821 to 896</td><td>1.5</td><td>2.5</td><td>2.5</td></tr><tr><td>928 to 929</td><td>5.0</td><td>n/a</td><td>n/a</td></tr><tr><td>929 to 960</td><td>1.5</td><td>n/a</td><td>n/a</td></tr><tr><td>2110 to 2220</td><td>10.0</td><td>n/a</td><td>n/a</td></tr></table></td></tr>
</table>

5.2 Field Strength of Spurious Radiation Measurement

LTE band 2 – 1.4 MHz bandwidth

Lowest channel

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3701.40	-49.06	-1.60	-50.66	-13.00	37.66	Vertical
5552.10	-51.15	5.43	-45.72	-13.00	32.72	Vertical
7402.00	-53.49	13.11	-40.38	-13.00	27.38	Vertical
3701.40	-50.60	-2.09	-52.69	-13.00	39.69	Horizontal
5552.10	-51.73	3.81	-47.92	-13.00	34.92	Horizontal
7402.00	-52.78	11.38	-41.40	-13.00	28.40	Horizontal

Middle channel

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3760.00	-49.34	-1.31	-50.65	-13.00	37.65	Vertical
5640.00	-51.18	6.98	-44.20	-13.00	31.20	Vertical
7520.00	-53.30	11.74	-41.56	-13.00	28.56	Vertical
3760.00	-50.33	-1.80	-52.13	-13.00	39.13	Horizontal
5640.00	-51.27	4.30	-46.97	-13.00	33.97	Horizontal
7520.00	-53.14	10.25	-42.89	-13.00	29.89	Horizontal

Highest channel

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3816.60	-49.76	-1.02	-50.78	-13.00	37.78	Vertical
5724.90	-51.40	8.20	-43.20	-13.00	30.20	Vertical
7633.20	-52.85	11.17	-41.68	-13.00	28.68	Vertical
3816.60	-49.87	-1.49	-51.36	-13.00	38.36	Horizontal
5724.90	-51.06	5.68	-45.38	-13.00	32.38	Horizontal
7633.20	-53.20	10.01	-43.19	-13.00	30.19	Horizontal

Remark:

1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.

LTE band 2 – 20 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3720.00	-49.21	-1.51	-50.72	-13.00	37.72	Vertical
5580.00	-50.72	5.80	-44.92	-13.00	31.92	Vertical
7440.00	-53.11	12.61	-40.50	-13.00	27.50	Vertical
3720.00	-50.04	-2.00	-52.04	-13.00	39.04	Horizontal
5580.00	-51.49	3.95	-47.54	-13.00	34.54	Horizontal
7440.00	-53.59	10.94	-42.65	-13.00	29.65	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3760.00	-49.65	-1.31	-50.96	-13.00	37.96	Vertical
5640.00	-51.61	6.98	-44.63	-13.00	31.63	Vertical
7520.00	-53.38	11.74	-41.64	-13.00	28.64	Vertical
3760.00	-50.47	-1.80	-52.27	-13.00	39.27	Horizontal
5640.00	-50.95	4.30	-46.65	-13.00	33.65	Horizontal
7520.00	-53.41	10.25	-43.16	-13.00	30.16	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3800.00	-49.41	-1.11	-50.52	-13.00	37.52	Vertical
5700.00	-51.11	8.28	-42.83	-13.00	29.83	Vertical
7600.00	-53.31	11.38	-41.93	-13.00	28.93	Vertical
3800.00	-50.12	-1.61	-51.73	-13.00	38.73	Horizontal
5700.00	-51.00	4.67	-46.33	-13.00	33.33	Horizontal
7600.00	-53.57	10.20	-43.37	-13.00	30.37	Horizontal

Remark:

1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.

LTE band 7 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5005.00	-45.89	4.56	-41.33	-25.00	16.33	Vertical
7507.50	-51.65	13.14	-38.51	-25.00	13.51	Vertical
10010.00	-50.71	16.93	-33.78	-25.00	8.78	Vertical
5005.00	-48.86	4.56	-44.30	-25.00	19.30	Horizontal
7507.50	-51.34	13.14	-38.20	-25.00	13.20	Horizontal
10010.00	-52.33	16.93	-35.40	-25.00	10.40	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5070.00	-45.72	4.55	-41.17	-25.00	16.17	Vertical
7605.00	-51.53	13.58	-37.95	-25.00	12.95	Vertical
10140.00	-50.77	17.44	-33.33	-25.00	8.33	Vertical
5070.00	-49.10	4.55	-44.55	-25.00	19.55	Horizontal
7605.00	-51.48	13.58	-37.90	-25.00	12.90	Horizontal
10140.00	-52.06	17.44	-34.62	-25.00	9.62	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5135.00	-45.34	4.62	-40.72	-25.00	15.72	Vertical
7702.50	-51.79	13.24	-38.55	-25.00	13.55	Vertical
10270.00	-50.64	18.40	-32.24	-25.00	7.24	Vertical
5135.00	-48.61	4.62	-43.99	-25.00	18.99	Horizontal
7702.50	-51.08	13.24	-37.84	-25.00	12.84	Horizontal
10270.00	-51.86	18.40	-33.46	-25.00	8.46	Horizontal

Remark:

1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.

LTE band 7 – 20 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5020.00	-45.37	4.56	-40.81	-25.00	15.81	Vertical
7530.00	-51.98	13.29	-38.69	-25.00	13.69	Vertical
10040.00	-51.22	16.98	-34.24	-25.00	9.24	Vertical
5020.00	-49.58	4.56	-45.02	-25.00	20.02	Horizontal
7530.00	-51.87	13.29	-38.58	-25.00	13.58	Horizontal
10040.00	-51.72	16.98	-34.74	-25.00	9.74	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5070.00	-45.25	4.55	-40.70	-25.00	15.70	Vertical
7605.00	-52.00	13.58	-38.42	-25.00	13.42	Vertical
10140.00	-50.41	17.44	-32.97	-25.00	7.97	Vertical
5070.00	-49.26	4.55	-44.71	-25.00	19.71	Horizontal
7605.00	-51.33	13.58	-37.75	-25.00	12.75	Horizontal
10140.00	-52.05	17.44	-34.61	-25.00	9.61	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5120.00	-46.09	4.62	-41.47	-25.00	16.47	Vertical
7680.00	-51.25	13.18	-38.07	-25.00	13.07	Vertical
10240.00	-50.42	18.27	-32.15	-25.00	7.15	Vertical
5120.00	-49.36	4.62	-44.74	-25.00	19.74	Horizontal
7680.00	-51.20	13.18	-38.02	-25.00	13.02	Horizontal
10240.00	-51.69	18.27	-33.42	-25.00	8.42	Horizontal

Remark:

1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.

LTE band 12 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1399.40	-51.05	-8.61	-59.66	-13.00	46.66	Vertical
2099.10	-49.34	-7.11	-56.45	-13.00	43.45	Vertical
2798.80	-47.94	-5.44	-53.38	-13.00	40.38	Vertical
1399.40	-50.81	-9.09	-59.90	-13.00	46.90	Horizontal
2099.10	-50.13	-6.80	-56.93	-13.00	43.93	Horizontal
2798.80	-49.79	-5.44	-55.23	-13.00	42.23	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1415.00	-50.82	-8.88	-59.70	-13.00	46.70	Vertical
2122.50	-49.02	-6.68	-55.70	-13.00	42.70	Vertical
2830.00	-48.24	-5.32	-53.56	-13.00	40.56	Vertical
1415.00	-50.50	-9.31	-59.81	-13.00	46.81	Horizontal
2122.50	-49.96	-6.49	-56.45	-13.00	43.45	Horizontal
2830.00	-49.44	-5.38	-54.82	-13.00	41.82	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1430.60	-50.36	-9.15	-59.51	-13.00	46.51	Vertical
2145.90	-49.34	-6.20	-55.54	-13.00	42.54	Vertical
2861.20	-47.90	-5.20	-53.10	-13.00	40.10	Vertical
1430.60	-50.37	-9.54	-59.91	-13.00	46.91	Horizontal
2145.90	-50.08	-6.15	-56.23	-13.00	43.23	Horizontal
2861.20	-49.80	-5.32	-55.12	-13.00	42.12	Horizontal

Remark:

1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.

LTE band 12 – 10 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1408.00	-50.44	-8.75	-59.19	-13.00	46.19	Vertical
2112.00	-48.95	-6.85	-55.80	-13.00	42.80	Vertical
2816.00	-47.93	-5.37	-53.30	-13.00	40.30	Vertical
1408.00	-50.91	-9.21	-60.12	-13.00	47.12	Horizontal
2112.00	-49.73	-6.62	-56.35	-13.00	43.35	Horizontal
2816.00	-49.86	-5.40	-55.26	-13.00	42.26	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1415.00	-51.14	-8.88	-60.02	-13.00	47.02	Vertical
2122.50	-49.27	-6.88	-56.15	-13.00	43.15	Vertical
2830.00	-47.97	-5.32	-53.29	-13.00	40.29	Vertical
1415.00	-50.46	-9.31	-59.77	-13.00	46.77	Horizontal
2122.50	-49.97	-6.49	-56.46	-13.00	43.46	Horizontal
2830.00	-49.57	-5.38	-54.95	-13.00	41.95	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1422.00	-50.50	-9.00	-59.50	-13.00	46.50	Vertical
2133.00	-48.76	-6.46	-55.22	-13.00	42.22	Vertical
2844.00	-48.55	-5.27	-53.82	-13.00	40.82	Vertical
1422.00	-50.39	-9.41	-59.80	-13.00	46.80	Horizontal
2133.00	-50.36	-6.33	-56.69	-13.00	43.69	Horizontal
2844.00	-49.73	-5.35	-55.08	-13.00	42.08	Horizontal

Remark:

1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.

LTE band 17 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1413.00	-49.31	-8.60	-57.91	-13.00	44.91	Vertical
2119.50	-50.66	-7.65	-58.31	-13.00	45.31	Vertical
2826.00	-50.34	-3.91	-54.25	-13.00	41.25	Vertical
1413.00	-49.89	-8.60	-58.49	-13.00	45.49	Horizontal
2119.50	-49.02	-7.65	-56.67	-13.00	43.67	Horizontal
2826.00	-49.93	-3.91	-53.84	-13.00	40.84	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1420.00	-49.46	-8.60	-58.06	-13.00	45.06	Vertical
2130.00	-51.01	-7.54	-58.55	-13.00	45.55	Vertical
2840.00	-50.35	-3.85	-54.20	-13.00	41.20	Vertical
1420.00	-49.92	-8.60	-58.52	-13.00	45.52	Horizontal
2130.00	-48.80	-7.54	-56.34	-13.00	43.34	Horizontal
2840.00	-49.44	-3.85	-53.29	-13.00	40.29	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1427.00	-49.95	-8.77	-58.72	-13.00	45.72	Vertical
2140.50	-50.59	-7.54	-58.13	-13.00	45.13	Vertical
2854.00	-50.15	-3.85	-54.00	-13.00	41.00	Vertical
1427.00	-50.31	-8.77	-59.08	-13.00	46.08	Horizontal
2140.50	-48.37	-7.54	-55.91	-13.00	42.91	Horizontal
2854.00	-49.19	-3.85	-53.04	-13.00	40.04	Horizontal

Remark:

1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.

LTE band 17 – 10 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1418.00	-49.77	-8.60	-58.37	-13.00	45.37	Vertical
2127.00	-50.89	-7.65	-58.54	-13.00	45.54	Vertical
2836.00	-49.97	-3.85	-53.82	-13.00	40.82	Vertical
1418.00	-50.27	-8.60	-58.87	-13.00	45.87	Horizontal
2127.00	-48.51	-7.65	-56.16	-13.00	43.16	Horizontal
2836.00	-49.82	-3.85	-53.67	-13.00	40.67	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1420.00	-49.20	-8.60	-57.80	-13.00	44.80	Vertical
2130.00	-50.68	-7.54	-58.22	-13.00	45.22	Vertical
2840.00	-50.52	-3.85	-54.37	-13.00	41.37	Vertical
1420.00	-50.30	-8.60	-58.90	-13.00	45.90	Horizontal
2130.00	-49.23	-7.54	-56.77	-13.00	43.77	Horizontal
2840.00	-48.99	-3.85	-52.84	-13.00	39.84	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1422.00	-49.29	-8.60	-57.89	-13.00	44.89	Vertical
2133.00	-51.42	-7.54	-58.96	-13.00	45.96	Vertical
2844.00	-50.27	-3.85	-54.12	-13.00	41.12	Vertical
1422.00	-49.73	-8.60	-58.33	-13.00	45.33	Horizontal
2133.00	-48.68	-7.54	-56.22	-13.00	43.22	Horizontal
2844.00	-49.10	-3.85	-52.95	-13.00	39.95	Horizontal

Remark:

1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.

LTE band 26 (part 22) – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1663.00	-49.49	-11.12	-60.61	-13.00	47.61	Vertical
2494.50	-49.32	-6.23	-55.55	-13.00	42.55	Vertical
3326.00	-49.13	-5.00	-54.13	-13.00	41.13	Vertical
1663.00	-49.81	-11.03	-60.84	-13.00	47.84	Horizontal
2494.50	-50.58	-6.54	-57.12	-13.00	44.12	Horizontal
3326.00	-50.05	-5.24	-55.29	-13.00	42.29	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1673.00	-49.69	-11.13	-60.82	-13.00	47.82	Vertical
2509.50	-49.33	-6.20	-55.53	-13.00	42.53	Vertical
3346.00	-49.47	-5.03	-54.50	-13.00	41.50	Vertical
1673.00	-50.16	-11.05	-61.21	-13.00	48.21	Horizontal
2509.50	-50.16	-6.51	-56.67	-13.00	43.67	Horizontal
3346.00	-49.89	-5.23	-55.12	-13.00	42.12	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1683.00	-50.08	-11.14	-61.22	-13.00	48.22	Vertical
2524.50	-49.78	-6.15	-55.93	-13.00	42.93	Vertical
3366.00	-49.14	-5.05	-54.19	-13.00	41.19	Vertical
1683.00	-50.44	-11.06	-61.50	-13.00	48.50	Horizontal
2524.50	-50.63	-6.45	-57.08	-13.00	44.08	Horizontal
3366.00	-49.54	-5.22	-54.76	-13.00	41.76	Horizontal

Remark:

1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.

LTE band 26 (part 22) – 15 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1663.00	-49.56	-11.12	-60.68	-13.00	47.68	Vertical
2494.50	-49.76	-6.23	-55.99	-13.00	42.99	Vertical
3326.00	-48.92	-5.00	-53.92	-13.00	40.92	Vertical
1663.00	-49.75	-11.03	-60.78	-13.00	47.78	Horizontal
2494.50	-50.90	-6.54	-57.44	-13.00	44.44	Horizontal
3326.00	-50.53	-5.24	-55.77	-13.00	42.77	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1673.00	-49.92	-11.13	-61.05	-13.00	48.05	Vertical
2509.50	-49.66	-6.20	-55.86	-13.00	42.86	Vertical
3346.00	-49.25	-5.03	-54.28	-13.00	41.28	Vertical
1673.00	-49.32	-11.05	-60.37	-13.00	47.37	Horizontal
2509.50	-50.74	-6.51	-57.25	-13.00	44.25	Horizontal
3346.00	-50.03	-5.23	-55.26	-13.00	42.26	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1683.00	-50.39	-11.14	-61.53	-13.00	48.53	Vertical
2524.50	-49.78	-6.15	-55.93	-13.00	42.93	Vertical
3366.00	-49.43	-5.05	-54.48	-13.00	41.48	Vertical
1683.00	-49.04	-11.06	-60.10	-13.00	47.10	Horizontal
2524.50	-51.05	-6.45	-57.50	-13.00	44.50	Horizontal
3366.00	-49.87	-5.22	-55.09	-13.00	42.09	Horizontal

Remark:

1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.

LTE band 26 (part 90) – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1629.40	-61.92	-11.09	-73.01	-13.00	60.01	Vertical
2444.10	-55.70	-6.15	-61.85	-13.00	48.85	Vertical
3258.80	-54.32	-4.59	-58.91	-13.00	45.91	Vertical
1629.40	-61.23	-10.97	-72.20	-13.00	59.20	Horizontal
2444.10	-57.64	-6.55	-64.19	-13.00	51.19	Horizontal
3258.80	-55.21	-4.72	-59.93	-13.00	46.93	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1638.00	-61.58	-11.09	-72.67	-13.00	59.67	Vertical
2457.00	-56.13	-6.17	-62.30	-13.00	49.30	Vertical
3276.00	-54.00	-4.75	-58.75	-13.00	45.75	Vertical
1638.00	-61.07	-10.98	-72.05	-13.00	59.05	Horizontal
2457.00	-57.83	-6.54	-64.37	-13.00	51.37	Horizontal
3276.00	-55.42	-4.95	-60.37	-13.00	47.37	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1646.60	-61.20	-11.10	-72.30	-13.00	59.30	Vertical
2469.90	-56.59	-6.19	-62.78	-13.00	49.78	Vertical
3293.20	-53.79	-4.91	-58.70	-13.00	45.70	Vertical
1646.60	-60.88	-11.00	-71.88	-13.00	58.88	Horizontal
2469.90	-57.88	-6.54	-64.42	-13.00	51.42	Horizontal
3293.20	-55.72	-5.18	-60.90	-13.00	47.90	Horizontal

Remark:

1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.

LTE band 26 (part 90) – 10 MHz bandwidth Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1638.00	-62.05	-11.10	-73.15	-13.00	60.15	Vertical
2457.00	-56.10	-6.17	-62.27	-13.00	49.27	Vertical
3276.00	-53.82	-4.75	-58.57	-13.00	45.57	Vertical
1638.00	-61.55	-10.99	-72.54	-13.00	59.54	Horizontal
2457.00	-57.42	-6.54	-63.96	-13.00	50.96	Horizontal
3276.00	-55.56	-4.95	-60.51	-13.00	47.51	Horizontal

Remark:

1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.

LTE band 41 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5075.00	-48.55	4.56	-43.99	-25.00	18.99	Vertical
7612.50	-53.51	13.14	-40.37	-25.00	15.37	Vertical
10150.00	-52.05	16.89	-35.16	-25.00	10.16	Vertical
5075.00	-49.73	4.56	-45.17	-25.00	20.17	Horizontal
7612.50	-53.13	13.14	-39.99	-25.00	14.99	Horizontal
10150.00	-52.41	16.89	-35.52	-25.00	10.52	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5190.00	-48.96	4.76	-44.20	-25.00	19.20	Vertical
7785.00	-53.18	13.48	-39.70	-25.00	14.70	Vertical
10380.00	-51.94	18.00	-33.94	-25.00	8.94	Vertical
5190.00	-49.29	4.76	-44.53	-25.00	19.53	Horizontal
7785.00	-52.68	13.48	-39.20	-25.00	14.20	Horizontal
10380.00	-52.71	18.00	-34.71	-25.00	9.71	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5305.00	-48.51	5.50	-43.01	-25.00	18.01	Vertical
7957.50	-52.96	13.31	-39.65	-25.00	14.65	Vertical
10610.00	-52.20	19.50	-32.70	-25.00	7.70	Vertical
5305.00	-49.12	5.50	-43.62	-25.00	18.62	Horizontal
7957.50	-52.27	13.31	-38.96	-25.00	13.96	Horizontal
10610.00	-53.00	19.50	-33.50	-25.00	8.50	Horizontal

Remark:

1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.

LTE band 41 – 20 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5090.00	-48.77	4.56	-44.21	-25.00	19.21	Vertical
7635.00	-53.66	13.29	-40.37	-25.00	15.37	Vertical
10180.00	-51.69	16.93	-34.76	-25.00	9.76	Vertical
5090.00	-48.94	4.56	-44.38	-25.00	19.38	Horizontal
7635.00	-52.84	13.29	-39.55	-25.00	14.55	Horizontal
10180.00	-53.10	16.93	-36.17	-25.00	11.17	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5190.00	-49.11	4.76	-44.35	-25.00	19.35	Vertical
7785.00	-53.45	13.48	-39.97	-25.00	14.97	Vertical
10380.00	-51.86	18.00	-33.86	-25.00	8.86	Vertical
5190.00	-49.25	4.76	-44.49	-25.00	19.49	Horizontal
7785.00	-52.20	13.48	-38.72	-25.00	13.72	Horizontal
10380.00	-52.81	18.00	-34.81	-25.00	9.81	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5290.00	-49.37	5.41	-43.96	-25.00	18.96	Vertical
7935.00	-53.48	13.33	-40.15	-25.00	15.15	Vertical
10580.00	-52.32	19.67	-32.65	-25.00	7.65	Vertical
5290.00	-49.44	5.41	-44.03	-25.00	19.03	Horizontal
7935.00	-52.94	13.33	-39.61	-25.00	14.61	Horizontal
10580.00	-52.69	19.67	-33.02	-25.00	8.02	Horizontal

Remark:

1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.

LTE band 66 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3421.40	-49.99	-7.52	-57.51	-13.00	44.51	Vertical
5132.10	-51.39	-1.45	-52.84	-13.00	39.84	Vertical
6842.80	-52.88	3.48	-49.40	-13.00	36.40	Vertical
3421.40	-50.17	-7.52	-57.69	-13.00	44.69	Horizontal
5132.10	-52.34	-1.45	-53.79	-13.00	40.79	Horizontal
6842.80	-51.72	3.48	-48.24	-13.00	35.24	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490.00	-50.27	-6.98	-57.25	-13.00	44.25	Vertical
5235.00	-51.59	-0.84	-52.43	-13.00	39.43	Vertical
6980.00	-52.85	3.10	-49.75	-13.00	36.75	Vertical
3490.00	-50.56	-6.98	-57.54	-13.00	44.54	Horizontal
5235.00	-51.88	-0.84	-52.72	-13.00	39.72	Horizontal
6980.00	-51.90	3.10	-48.80	-13.00	35.80	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3558.60	-50.33	-6.75	-57.08	-13.00	44.08	Vertical
5337.90	-51.47	-0.37	-51.84	-13.00	38.84	Vertical
7117.20	-53.06	3.51	-49.55	-13.00	36.55	Vertical
3558.60	-50.76	-6.75	-57.51	-13.00	44.51	Horizontal
5337.90	-52.33	-0.37	-52.70	-13.00	39.70	Horizontal
7117.20	-51.61	3.51	-48.10	-13.00	35.10	Horizontal

Remark:

1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.

LTE band 66 – 20 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3440.00	-50.42	-7.39	-57.81	-13.00	44.81	Vertical
5160.00	-51.32	-1.22	-52.54	-13.00	39.54	Vertical
6880.00	-53.31	3.66	-49.65	-13.00	36.65	Vertical
3440.00	-50.75	-7.39	-58.14	-13.00	45.14	Horizontal
5160.00	-51.43	-1.22	-52.65	-13.00	39.65	Horizontal
6880.00	-52.12	3.66	-48.46	-13.00	35.46	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490.00	-50.23	-6.98	-57.21	-13.00	44.21	Vertical
5235.00	-51.48	-0.84	-52.32	-13.00	39.32	Vertical
6980.00	-53.24	3.10	-50.14	-13.00	37.14	Vertical
3490.00	-50.18	-6.98	-57.16	-13.00	44.16	Horizontal
5235.00	-51.53	-0.84	-52.37	-13.00	39.37	Horizontal
6980.00	-51.67	3.10	-48.57	-13.00	35.57	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3540.00	-50.32	-6.81	-57.13	-13.00	44.13	Vertical
5310.00	-51.70	-0.55	-52.25	-13.00	39.25	Vertical
7080.00	-52.50	3.37	-49.13	-13.00	36.13	Vertical
3540.00	-50.80	-6.81	-57.61	-13.00	44.61	Horizontal
5310.00	-51.65	-0.55	-52.20	-13.00	39.20	Horizontal
7080.00	-51.56	3.37	-48.19	-13.00	35.19	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

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