FCC RF Test Report

Applicant:	Baicells Technologies Co., Ltd.
Address of Applicant:	9-10F, 1stBldg., No.81BeiqingRoad, Haidian District, Beijing, China
Equipment Under Test (EUT)	
Product Name:	LTE Base Station
Model No.:	mBS31010
Trade mark:	Baicells
FCC ID:	2AG32MBS31010
Applicable standards:	FCC CFR Title 47 Part 2, 96
Date of sample receipt:	20 Apr., 2023
Date of Test:	21 Apr., to 08 Jun, 2023
Date of report issued:	09 Jun, 2023
Test Result:	PASS

Tested by:	***Ray Long/ Test Engineer***	***Date:***	*09 Jun, 2023*
Reviewed by:	***Janet Wei/ Project Engineer***	***Date:***	*09 Jun, 2023*
Approved by:	***Bruce Zhang/ Manager***	***Date:***	*09 Jun, 2023*

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.

1 Version

Version No.	Date	Description
00	*09 Jun, 2023*	*Original*

2 Contents

3 General Information

3.1 Client Information

Applicant:	Baicells Technologies Co., Ltd.
Address:	9-10F, 1stBldg., No.81BeiqingRoad, Haidian District, Beijing, China
Manufacturer	Baicells Technologies Co., Ltd.
Address:	9-10F, 1stBldg., No.81BeiqingRoad, Haidian District, Beijing, China

3.2 General Description of E.U.T.

Product Name:	LTE Base Station
Model No.:	mBS31010
CBSD Class:	Category B
Operation Frequency range:	LTE band 48: 3550MHz~3700MHz
Modulation type:	☒QPSK ☒16QAM ☒64QAM ☒256QAM(only supports downlink)
Antenna type:	Internal antenna
Antenna gain:	LTE band 48: 12.5 dBi (declare by Applicant)
Antenna Transmit Mode:	2x2 MIMO/Single carrier Supported Carrier: Max 2(4TX, 4RX)
AC adapter:	Model: GRT-POE120-540220A Input: 100-240V~50/60Hz, 2.0A Output: 54.0V, 2.2A 118.8W
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 in QPSK modulation mode to communication
16-QAM mode:	Keep the EUT in 16-QAM modulation mode to communication
64-QAM mode	Keep the EUT in 64-QAM modulation mode to communication
256-QAM mode	Keep the EUT in 256-QAM modulation mode to communication

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. *With scanning all the modulation, QPSK and 256QAM are found to be the worst mode, the report only reflects the worst mode*

Operating Environment:	
Temperature:	Normal: 15℃ ~ 35℃, Extreme: -30℃ ~ +50℃
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar
Voltage:	Nominal: 48 Vdc, Extreme: Low 40 Vdc, High 57 Vac

3.4 Description of Test Auxiliary Equipment

The EUT has been tested as an independent unit.

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

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	02-09-2023	02-08-2024
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	02-09-2023	02-08-2024
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	07-02-2021	07-01-2024
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	02-09-2023	02-08-2024
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	01-09-2023	01-08-2024
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	01-09-2023	01-08-2024
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-6	01-09-2023	01-08-2024
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	01-10-2023	01-09-2024
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXJ001-3	01-10-2023	01-09-2024
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	01-11-2023	01-10-2024
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	01-11-2023	01-10-2024
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	01-10-2023	01-09-2024
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	10-17-2022	10-16-2023
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	01-18-2023	01-17-2024
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	01-18-2023	01-17-2024
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG001-7	01-18-2023	01-17-2024
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	N9010B	WXJ081-1	06-29-2022	06-28-2023
Vector Signal Generator	Keysight	N5182B	WXJ091-1	06-29-2022	06-28-2023
Vector Signal Generator	Keysight	N5182B	WXJ091-2	06-29-2022	06-28-2023
Signal Generator	Keysight	N5173B	WXJ091-3	06-29-2022	06-28-2023
Network Analyzer	Keysight	E5071C	WXJ091	01-10-2023	01-09-2024
RF Control Unit	Tonscend	JS0806-1	WXG010-2	N/A	N/A
RF Control Unit	Tonscend	JS0806-1	WXG010-3	N/A	N/A
Band Reject Filter Group	Tonscend	JS0806-F	WXG010-4	N/A	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:

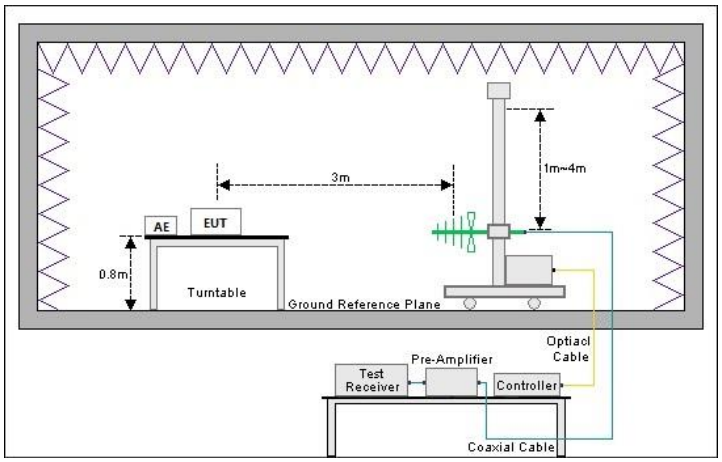
LTE band 48

Channels	Frequency (MHz)	Channels		Frequency (MHz)
10 MHz		**20 MHz**		
Lowest channel	3555.0	Lowest channel	3560.0	Lowest channel
Middle channel	3625.0	Middle channel	3625.0	Middle channel
Highest channel	3695.0	Highest channel	3690.0	Highest channel

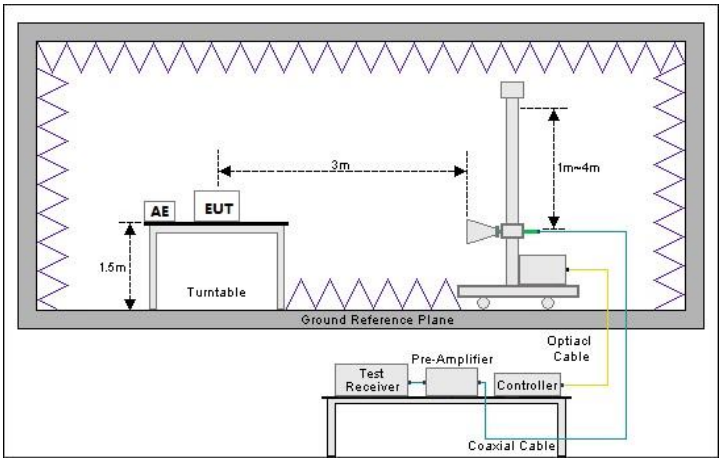
4.2 Test Setup

1) Radiated emission measurement:

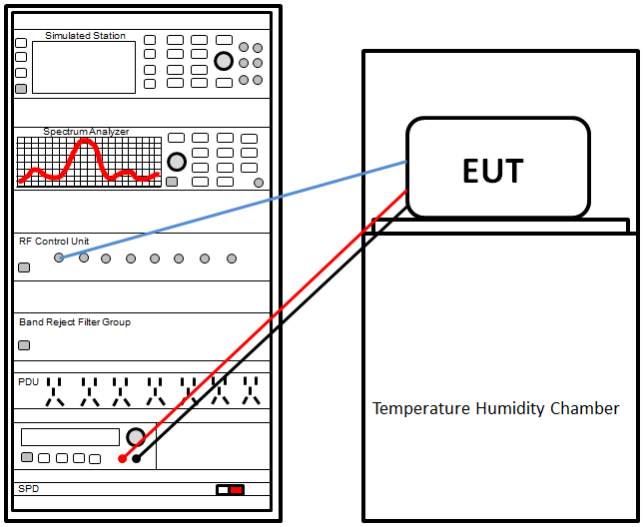
Below 1GHz (3m SAC)



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 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
Effective Isotropic Radiated Power (EIRP)	Part 2.1046 Part 96.41(b)	See Section 5.2 Appendix – LTE band 48	Pass
Power Spectral Density (PSD)	Part 2.1046 Part 96.41(b)	See Section 5.3 Appendix – LTE band 48	Pass
Peak-to-average power ratio (PAPR)	Part 96.41(g)	Appendix – LTE band 48	Pass
99% Occupied Bandwidth -26 dB Occupied Bandwidth	Part 2.1049	Appendix – LTE band 48	Record
Emission Mask	Part 96.41(e)(1)	Appendix – LTE band 48	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 96.41(e)(2)	Appendix – LTE band 48	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 96.41(e)(2)	See Section 5.4	Pass
Frequency stability	Part 2.1055(a)(b)	Appendix – LTE band 48	Record

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* *KDB 971168 D01 Power Meas License Digital Systems v03r01* *KDB 940660 D01 Part 96 CBRS Eqpt v03* *KDB 662911 D01 Multiple Transmitter Output v02r01*

5.1.2 Test Limit

<table>
<tr><th>Test items</th><th>Limit</th></tr>
<tr><td>Effective Isotropic Radiated Power (EIRP)
Power Spectral Density (PSD)</td><td>
<table>
<tr><th>Device</th><th>Maximum EIRP (dBm/10 MHz)</th><th>Maximum PSD (dBm/MHz)</th></tr>
<tr><td>End User Device</td><td>23</td><td>N/A</td></tr>
<tr><td>Category A CBSD</td><td>30</td><td>20</td></tr>
<tr><td>Category B CBSD</td><td>47</td><td>37</td></tr>
</table>
</td></tr>
<tr><td>Peak-to-Average Power Ratio</td><td>The peak-to-average power ratio (PAPR) of any CBSD transmitter output power must not exceed 13 dB</td></tr>
<tr><td>26dB Emission Bandwidth
99% Occupied Bandwidth</td><td>N/A</td></tr>
<tr><td>Emission Mask</td><td>(i) Except as otherwise specified in paragraph (e)(2) of this section, for channel and frequency assignments made by the SAS to CBSDs, the conducted power of any CBSD emission outside the fundamental emission bandwidth as specified in paragraph (e) (3) of this section (whether the emission is inside or outside of the authorized band) shall not exceed −13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any CBSD emission shall not exceed −25 dBm/MHz. The upper and lower SAS assigned channel edges are the upper and lower limits of any channel assigned to a CBSD by an SAS, or in the case of multiple contiguous channels, the upper and lower limits of the combined contiguous channels.

(ii) Except as otherwise specified in paragraph (e)(2) of this section, for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed −13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed −25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.</td></tr>
<tr><td>Out of Band Emission at Antenna Terminals

Field Strength of Spurious Radiation</td><td>Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed −25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed −40dBm/MHz.</td></tr>
<tr><td>Frequency Stability</td><td>The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.</td></tr>
</table>

5.2 Effective Isotropic Radiated Power (EIRP)

For 10MHz measurement bandwidth							
Modulation	Test channel	ANT. Port	Output Power (dBm/10MHz)	Total Power (dBm/10MHz)	Directional gain (dBi)	EIRP (dBm/10MHz)	Limit (dBm/10MHz)
QPSK (10MHz)	Lowest	ANT 1	31.13	34.24	12.50	46.74	47.00
		ANT 2	31.32				
		ANT 3	31.32	34.36		46.86	
		ANT 4	31.37				
	Middle	ANT 1	31.47	34.43		46.93	
		ANT 2	31.36				
		ANT 3	30.54	33.81		46.31	
		ANT 4	31.04				
	Highest	ANT 1	30.71	33.71		46.21	
		ANT 2	30.68				
		ANT 3	30.70	33.56		46.06	
		ANT 4	30.38				
256QAM (10MHz)	Lowest	ANT 1	31.20	34.18	12.50	46.68	
		ANT 2	31.14				
		ANT 3	31.46	34.25		46.75	
		ANT 4	31.00				
	Middle	ANT 1	31.47	34.42		46.92	
		ANT 2	31.35				
		ANT 3	30.62	33.99		46.49	
		ANT 4	31.31				
	Highest	ANT 1	31.02	33.65		46.15	
		ANT 2	30.21				
		ANT 3	31.09	33.83		46.33	
		ANT 4	30.52				
QPSK (20MHz)	Lowest	ANT 1	30.55	34.22	12.50	46.72	47.00
		ANT 2	31.77				
		ANT 3	31.35	34.21		46.71	
		ANT 4	31.04				
	Middle	ANT 1	31.42	34.36		46.86	
		ANT 2	31.27				
		ANT 3	31.26	34.29		46.79	
		ANT 4	31.30				
	Highest	ANT 1	31.57	34.24		46.74	
		ANT 2	30.86				
		ANT 3	31.38	34.30		46.80	
		ANT 4	31.19				
256QAM (20MHz)	Lowest	ANT 1	30.71	34.16	12.50	46.66	
		ANT 2	31.55				
		ANT 3	31.26	34.27		46.77	
		ANT 4	31.25				
	Middle	ANT 1	31.44	34.38		46.88	
		ANT 2	31.29				
		ANT 3	31.34	34.39		46.89	
		ANT 4	31.42				
	Highest	ANT 1	31.63	34.39		46.89	
		ANT 2	31.06				
		ANT 3	31.38	34.30		46.80	
		ANT 4	31.19				

Remark:

1. *All transmit signals are completely uncorrelated with each other, Directional gain = GANT =12.50 dBi.*
2. ANT 1 & ANT 2, ANT 3 & ANT 4 is 2*2MIMO

For 20Mz bandwidth measurement bandwidth							
Modulation	Test channel	ANT. Port	Output Power (dBm/20MHz)	Total Power (dBm/20MHz)	Directional gain (dBi)	EIRP (dBm/20MHz)	Limit (dBm/20MHz)
QPSK (20MHz)	Lowest	ANT 1	33.40	36.92	12.50	49.42	N/A
		ANT 2	34.36				
		ANT 3	34.51	37.52		50.02	
		ANT 4	34.50				
	Middle	ANT 1	34.48	37.18		49.68	
		ANT 2	33.84				
		ANT 3	34.37	37.39		49.89	
		ANT 4	34.38				
	Highest	ANT 1	34.05	36.77		49.27	
		ANT 2	33.44				
		ANT 3	34.18	37.26		49.76	
		ANT 4	34.31				
256QAM (20MHz)	Lowest	ANT 1	33.34	36.84	12.50	49.34	
		ANT 2	34.26				
		ANT 3	34.43	37.31		49.81	
		ANT 4	34.16				
	Middle	ANT 1	34.53	37.42		49.92	
		ANT 2	34.28				
		ANT 3	34.01	37.24		49.74	
		ANT 4	34.43				
	Highest	ANT 1	34.12	36.79		49.29	
		ANT 2	33.40				
		ANT 3	34.39	37.38		49.88	
		ANT 4	34.34				

Remark:

1. All transmit signals are completely uncorrelated with each other, Directional gain = GANT =12.50 dBi.

2. ANT 1 & ANT 2, ANT 3 & ANT 4 is 2*2MIMO

5.3 Power Spectral Density (PSD)

Modulation	Test channel	ANT. Port	PSD (dBm/MHz)	Total PSD (dBm/MHz)	Directional gain (dBi)	PSD (e.i.r.p) (dBm/MHz)	Limit (dBm/MHz)
QPSK (10MHz)	Lowest	ANT 1	21.08	24.14	12.5	36.64	37
		ANT 2	21.18				
		ANT 3	21.31	24.19		36.69	
		ANT 4	21.05				
	Middle	ANT 1	20.78	23.87		36.7	
		ANT 2	20.73				
		ANT 3	20.87	23.86		36.36	
		ANT 4	20.83				
	Highest	ANT 1	20.82	23.90		36.40	
		ANT 2	20.96				
		ANT 3	20.91	23.84		36.34	
		ANT 4	20.74				
256QAM (10MHz)	Lowest	ANT 1	21.08	24.13	12.5	36.63	
		ANT 2	21.15				
		ANT 3	21.17	23.75		36.25	
		ANT 4	20.27				
	Middle	ANT 1	20.88	23.94		36.44	
		ANT 2	20.98				
		ANT 3	20.76	23.81		36.31	
		ANT 4	20.83				
	Highest	ANT 1	20.97	23.96		36.46	
		ANT 2	20.93				
		ANT 3	20.98	23.92		36.42	
		ANT 4	20.83				
QPSK (20MHz)	Lowest	ANT 1	21.01	24.11	12.5	36.61	37
		ANT 2	21.18				
		ANT 3	20.92	23.93		36.46	
		ANT 4	20.91				
	Middle	ANT 1	21.40	24.41		36.91	
		ANT 2	21.39				
		ANT 3	21.19	24.23		36.73	
		ANT 4	21.24				
	Highest	ANT 1	21.16	24.26		36.76	
		ANT 2	21.33				
		ANT 3	21.34	24.22		36.72	
		ANT 4	21.08				
256QAM (20MHz)	Lowest	ANT 1	20.84	23.9	12.5	36.39	
		ANT 2	20.91				
		ANT 3	21.13	24.04		36.54	
		ANT 4	20.93				
	Middle	ANT 1	21.34	24.33		36.83	
		ANT 2	21.30				
		ANT 3	21.01	24.17		36.67	
		ANT 4	21.31				
	Highest	ANT 1	21.06	24.20		36.70	
		ANT 2	21.31				
		ANT 3	20.82	23.93		36.43	
		ANT 4	21.01				

Remark:

1. All transmit signals are completely uncorrelated with each other, Directional gain = GANT =12.50 dBi.

5.4 Field Strength of Spurious Radiation

Remark: During the test, pre-scan the QPSK, 16QAM, 64QAM, 256QAM modulation, and found the QPSK modulation is the worst case.

LTE band 48 (10 MHz) - QPSK						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
7105.00	-53.73	3.56	-50.17	-40.00	10.17	Vertical
10657.50	-54.93	11.88	-43.05	-40.00	3.05	Vertical
7105.00	-53.42	3.11	-50.31	-40.00	10.31	Horizontal
10657.50	-54.72	10.31	-44.41	-40.00	4.41	Horizontal
Middel channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
7250.00	-53.64	4.00	-49.64	-40.00	9.64	Vertical
10875.00	-55.01	11.19	-43.82	-40.00	3.82	Vertical
7250.00	-53.70	3.50	-50.20	-40.00	10.20	Horizontal
10875.00	-54.78	10.72	-44.06	-40.00	4.06	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
7395.00	-53.56	4.27	-49.29	-40.00	9.29	Vertical
11092.50	-54.76	11.21	-43.55	-40.00	3.55	Vertical
7395.00	-53.51	3.43	-50.08	-40.00	10.08	Horizontal
11092.50	-55.07	11.00	-44.07	-40.00	4.07	Horizontal
Remark: *The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.*						

LTE band 48 (20 MHz) - QPSK						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
7120.00	-53.43	3.70	-49.73	-40.00	9.73	Vertical
10680.00	-55.18	11.74	-43.44	-40.00	3.44	Vertical
7120.00	-53.69	3.26	-50.43	-40.00	10.43	Horizontal
10680.00	-54.73	10.25	-44.48	-40.00	4.48	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
7250.00	-53.60	4.00	-49.60	-40.00	9.60	Vertical
10875.00	-54.72	11.10	-43.62	-40.00	3.62	Vertical
7250.00	-53.48	3.50	-49.98	-40.00	9.98	Horizontal
10875.00	-54.91	10.72	-44.19	-40.00	4.19	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
7380.00	-54.23	3.87	-50.36	-40.00	10.36	Vertical
11070.00	-54.64	11.42	-43.22	-40.00	3.22	Vertical
7380.00	-53.18	3.36	-49.82	-40.00	9.82	Horizontal
11070.00	-54.87	11.06	-43.81	-40.00	3.81	Horizontal
Remark: *The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.*						

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