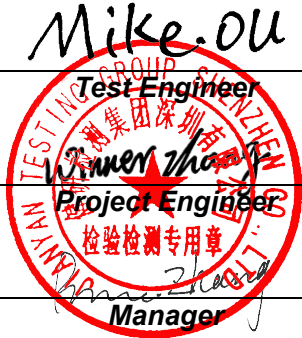


FCC RF Test Report

Applicant: Baicells Technologies Co., Ltd.
Address of Applicant: 9-10F, 1stBldg., No.81BeiqingRoad, Haidian District, Beijing, China
Equipment Under Test (EUT)
Product Name: Nova452 Outdoor TDD eNodeB
Model No.: sBS77410
Trade mark: Baicells
FCC ID: 2AG32SBS77410
Applicable standards: FCC CFR Title 47 Part 2, 27 Subpart M
Date of sample receipt: 21 Feb., 2023
Date of Test: 22 Feb., to 23 Mar., 2023
Date of report issued: 30 Mar., 2023
Test Result: PASS

Tested by: Mike.ou **Date:** 30 Mar., 2023
Reviewed by: Wenwen Zhang **Date:** 30 Mar., 2023
Approved by: Wenwen Zhang **Date:** 30 Mar., 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.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

1 Version

Version No.	Date	Description
00	23 Mar., 2023	Original
01	30 Mar., 2023	Update Page 12 and Appendix – LTE band 41.

2 Contents

	Page
Cover Page	1
1 Version	2
2 Contents	3
3 General Information	4
3.1 Client Information	4
3.2 General Description of E.U.T.....	4
3.3 Test Mode and Environment	5
3.4 Description of Test Auxiliary Equipment	5
3.5 Measurement Uncertainty	5
3.6 Additions to, Deviations, or Exclusions from the Method	5
3.7 Laboratory Facility	5
3.8 Laboratory Location.....	6
3.9 Test Instruments list.....	6
4 Measurement Setup and Procedure	7
4.1 Test Channel	7
4.2 Test Setup	8
4.3 Test Procedure	9
5 Test Results	10
5.1 Summary	10
5.1.1 Clause and Data Summary.....	10
5.1.2 Test Limit.....	11
5.2 Effective Isotropic Radiated Power (EIRP)	12
5.3 Field Strength of Spurious Radiation	13

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:	Nova452 Outdoor TDD eNodeB	
Model No.:	sBS77410	
Operation Frequency range:	LTE band 41:	2496MHz-2690MHz
Modulation type:	<input checked="" type="checkbox"/> QPSK <input checked="" type="checkbox"/> 16QAM <input checked="" type="checkbox"/> 64QAM <input checked="" type="checkbox"/> 256QAM(only supports downlink)	
Antenna type:	External antenna	
Antenna gain:	LTE band 41: 13.0 dBi (declare by Applicant)	
Antenna Transmit Mode:	4x4 MIMO (4TX, 4RX)	
Power supply:	DC 48V (DC 40V to 57V)	
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:	
<ol style="list-style-type: none"> 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. 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°C ~ 35°C, Extreme: -30°C ~ +50°C
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	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	01-10-2023	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	03-30-2022	03-29-2023
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	03-30-2022	03-29-2023
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

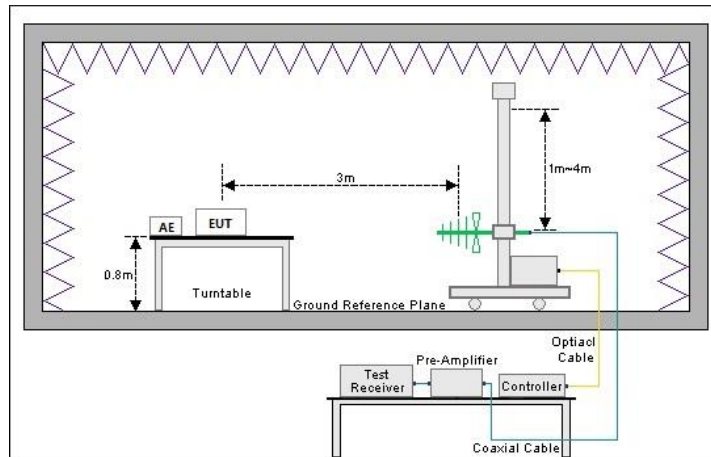
4.1 Test Channel

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 41- DC mode			
Channels	Frequency (MHz)	Channels	Frequency (MHz)
10 MHz		20 MHz	
Lowest channel	2501.0	Lowest channel	2506.0
Middle channel	2593.0	Middle channel	2593.0
Highest channel	2685.0	Highest channel	2680.0
LTE band 41- 2CA mode			
Channels	Frequency (MHz)	Channels	Frequency (MHz)
10 MHz+10 MHz		20 MHz+20 MHz	
Lowest channel	2506.0	Lowest channel	2516.0
Middle channel	2593.0	Middle channel	2593.0
Highest channel	2680.0	Highest channel	2670.0

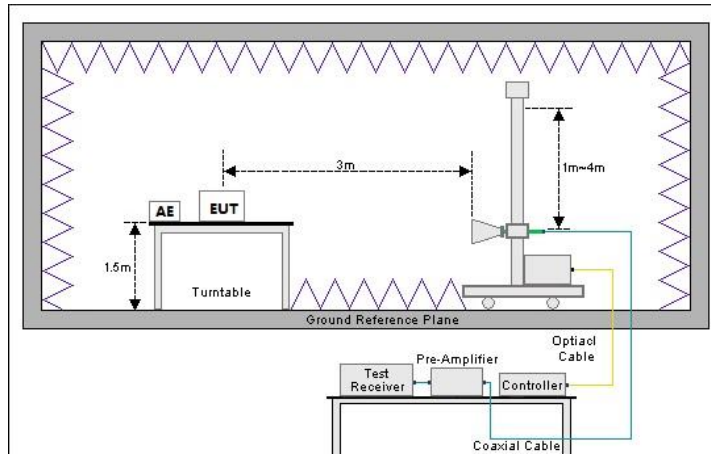
4.2 Test Setup

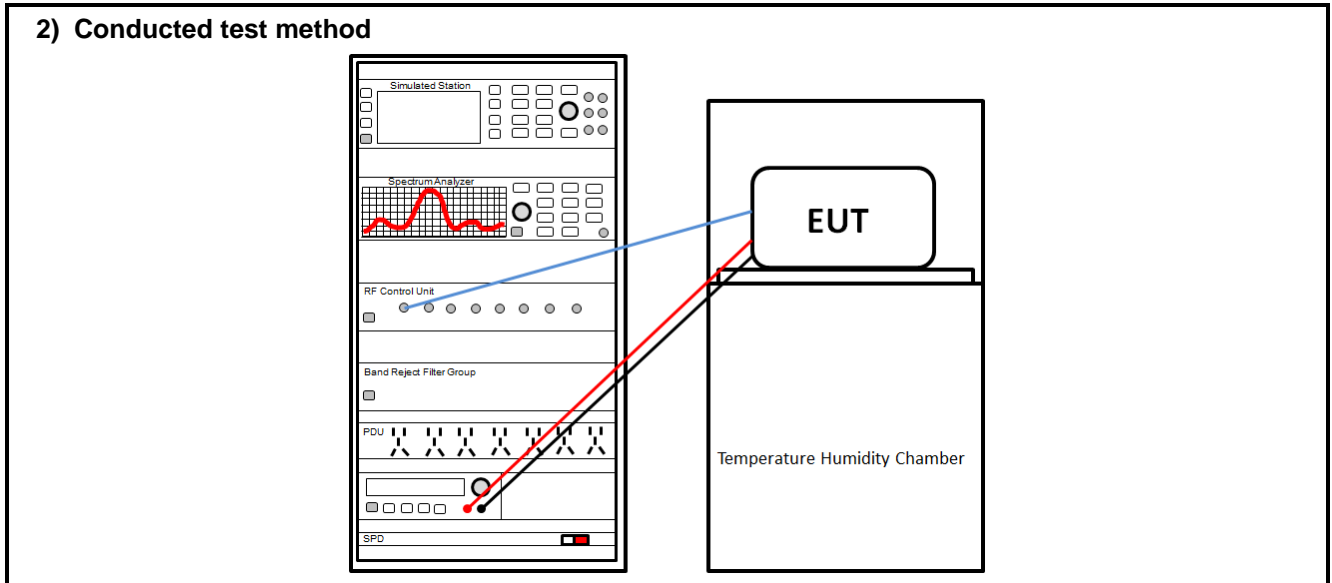
1) Radiated emission measurement:

Below 1GHz (3m SAC)



Above 1GHz (3m SAC)





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 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

Test items	Standard clause	Test data	Result
Effective Isotropic Radiated Power (EIRP)	Part 2.1046 Part 27.50 (h)(1)	See Section 5.2 Appendix – LTE band 41	Pass
Peak-to-average power ratio (PAPR)	N/A(Report only)	Appendix – LTE band 41	Pass
99% Occupied Bandwidth -26 dB Occupied Bandwidth	Part 2.1049 Part 27.53(m)	Appendix – LTE band 41	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 27.53(m)(2)	Appendix – LTE band 41	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 27.53(m)(2)	See Section 5.3	Pass
Frequency stability	Part 2.1055(a)(b)(d)	Appendix – LTE band 41	Pass
Remark: 1. Pass: The EUT complies with the essential requirements in the standard. 2. Offset Ext Gain = ATT loss + Cable loss + Duty cycle correction 3. 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 662911 D01 Multiple Transmitter Output v02r01		

5.1.2 Test Limit

Test items	Limit
Effective Isotropic Radiated Power (EIRP)	Main, booster and base stations. (i) The maximum EIRP of a main, booster or base station shall not exceed $33 \text{ dBW} + 10\log(X/Y) \text{ dBW}$, where X is the actual channel width in MHz and Y is either 6 MHz if prior to transition or the station is in the MBS following transition or 5.5 MHz if the station is in the LBS and UBS following transition, except as provided in paragraph(h)(1)(ii) of this section.
Peak-to-Average Power Ratio	N/A(Report only)
26dB Emission Bandwidth 99% Occupied Bandwidth	N/A(Report only)
Out of Band Emission at Antenna Terminals; Field Strength of Spurious Radiation	For all fixed digital user stations, the attenuation factor shall be not less than $43 + 10 \log (P) \text{ dB}$ at the channel edge.
Frequency Stability	The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

5.2 Effective Isotropic Radiated Power (EIRP)

DC mode:

Band width	Modulation	Channel	ANT 0 Output Power (dBm)	ANT 1 Output Power (dBm)	ANT 2 Output Power (dBm)	ANT 3 Output Power (dBm)	Total Power (dBm)	Gain (dBi)	Eirp	Limit (dBm)	Verdict
10MHz	QPSK	Lowest	46.45	46.23	45.92	45.7	52.105	13	65.11	65.60	PASS
10MHz	QPSK	Middle	45.66	46.11	45.61	45.01	51.636	13	64.64	65.22	PASS
10MHz	QPSK	Highest	45.34	45.94	45.44	45.58	51.602	13	64.60	65.60	PASS
10MHz	64QAM	Lowest	44.94	44.93	45.02	44.47	47.945	13	60.95	65.60	PASS
10MHz	64QAM	Middle	44.39	44.42	44.91	44.72	47.415	13	60.42	65.22	PASS
10MHz	64QAM	Highest	44.94	44.93	44.80	44.92	47.945	13	60.95	65.60	PASS
10MHz	256QAM	Lowest	45.7	46.46	46.62	46.19	52.277	13	65.28	65.60	PASS
10MHz	256QAM	Middle	45.1	46	46.14	45.94	51.834	13	64.83	65.22	PASS
10MHz	256QAM	Highest	45.04	45.81	45.35	45.65	51.493	13	64.49	65.60	PASS
20MHz	QPSK	Lowest	46.07	46.28	45.66	45.77	51.973	13	64.97	68.61	PASS
20MHz	QPSK	Middle	45.62	45.7	45.55	45.79	51.687	13	64.69	68.23	PASS
20MHz	QPSK	Highest	45.59	46.2	45.22	45.96	51.779	13	64.78	68.61	PASS
20MHz	64QAM	Lowest	44.69	44.52	44.15	44.1	47.616	13	60.62	68.61	PASS
20MHz	64QAM	Middle	44.82	44.79	44.62	44.75	47.815	13	60.82	68.23	PASS
20MHz	64QAM	Highest	45.09	45.07	44.91	45.04	48.090	13	61.09	68.61	PASS
20MHz	256QAM	Lowest	46.15	46.07	45.73	45.95	51.998	13	65.00	68.61	PASS
20MHz	256QAM	Middle	45.96	45.84	45.45	45.94	51.823	13	64.82	68.23	PASS
20MHz	256QAM	Highest	45.8	45.53	45.52	45.82	51.690	13	64.69	68.61	PASS

Remark:

- ANT 0, ANT 1, ANT 2, ANT 3 is 4*4MIMO
- All transmit signals are completely uncorrelated with each other, Directional gain = GANT =13dBi

2CA mode:

Band width	Modulation	Channel	ANT 0 Output Power (dBm)	ANT 1 Output Power (dBm)	ANT 2 Output Power (dBm)	ANT 3 Output Power (dBm)	Total Power (dBm)	Gain (dBi)	Eirp	Limit (dBm)	Verdict
10+10MHz	QPSK	Lowest	44.18	44.33	45.27	46.61	51.230	13	64.23	68.61	PASS
10+10MHz	QPSK	Middle	45.58	45.72	44.68	45.03	51.293	13	64.29	68.23	PASS
10+10MHz	QPSK	Highest	45.86	45.59	44.19	46.7	51.696	13	64.70	68.61	PASS
10+10MHz	64QAM	Lowest	44.94	44.99	44.93	44.85	47.975	13	60.98	68.61	PASS
10+10MHz	64QAM	Middle	44.78	44.53	45.04	44.83	47.667	13	60.67	68.23	PASS
10+10MHz	64QAM	Highest	44.94	44.57	45.13	44.81	47.769	13	60.77	68.61	PASS
10+10MHz	256QAM	Lowest	44.96	45.98	44.46	45.48	51.278	13	64.28	68.61	PASS
10+10MHz	256QAM	Middle	46.08	46.41	45.75	44.37	51.739	13	64.74	68.23	PASS
10+10MHz	256QAM	Highest	44.98	45.23	45.78	45.92	51.515	13	64.52	68.61	PASS
20+20MHz	QPSK	Lowest	46.28	48.3	43.4	47.62	52.782	13	65.78	73.39	PASS
20+20MHz	QPSK	Middle	45.63	45.48	46.05	46.81	52.045	13	65.04	73.39	PASS
20+20MHz	QPSK	Highest	45.78	44.82	46.05	45.87	51.676	13	64.68	73.39	PASS
20+20MHz	64QAM	Lowest	44.86	44.5	44.94	45	47.694	13	60.69	73.39	PASS
20+20MHz	64QAM	Middle	44.95	44.63	44.6	44.44	47.803	13	60.80	73.39	PASS
20+20MHz	64QAM	Highest	44.97	44.48	44.49	44.99	47.742	13	60.74	73.39	PASS
20+20MHz	256QAM	Lowest	44.92	46.14	45.42	44.75	51.362	13	64.36	73.39	PASS
20+20MHz	256QAM	Middle	46.15	44.6	46.27	46.41	51.936	13	64.94	73.39	PASS
20+20MHz	256QAM	Highest	46.25	46.16	47.26	45.4	52.339	13	64.81	73.39	PASS

Remark:

- ANT 0, ANT 1, ANT 2, ANT 3 is 4*4MIMO
- All transmit signals are completely uncorrelated with each other, Directional gain = GANT =13dBi

5.3 Field Strength of Spurious Radiation

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

DC Mode:

LTE band 41 (10 MHz) - QPSK						
Lowest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5002	-49.34	4.1	-45.24	-13.00	32.24	Vertical
7503	-47.47	11	-36.47	-13.00	23.47	Vertical
10004	-46.77	17.98	-28.79	-13.00	15.79	Vertical
5002	-48.38	4.21	-44.17	-13.00	31.17	Horizontal
7503	-46.08	10.71	-35.37	-13.00	22.37	Horizontal
10004	-45.59	16.9	-28.69	-13.00	15.69	Horizontal
Middel channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5186	-49.61	4.21	-45.4	-13.00	32.4	Vertical
7779	-47.43	11.34	-36.09	-13.00	23.09	Vertical
10372	-46.97	18.38	-28.59	-13.00	15.59	Vertical
5186	-48.87	3.72	-45.15	-13.00	32.15	Horizontal
7779	-46.22	10.86	-35.36	-13.00	22.36	Horizontal
10372	-45.79	17.1	-28.69	-13.00	15.69	Horizontal
Highest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5370	-49.68	4.06	-45.62	-13.00	32.62	Vertical
8055	-47.71	10.91	-36.8	-13.00	23.8	Vertical
10740	-46.97	18.83	-28.14	-13.00	15.14	Vertical
5370	-49.37	3.51	-45.86	-13.00	32.86	Horizontal
8055	-46.62	11.23	-35.39	-13.00	22.39	Horizontal
10740	-45.63	16.72	-28.91	-13.00	15.91	Horizontal
Remark:						
The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.						

LTE band 41 (20 MHz) - QPSK						
Lowest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5012	-49.37	3.89	-45.48	-13.00	32.48	Vertical
7518	-47.45	11.57	-35.88	-13.00	22.88	Vertical
10024	-46.48	18.12	-28.36	-13.00	15.36	Vertical
5012	-48.95	3.75	-45.2	-13.00	32.2	Horizontal
7518	-46.3	10.4	-35.9	-13.00	22.9	Horizontal
10024	-46.13	17.15	-28.98	-13.00	15.98	Horizontal
Middel channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5186	-48.95	3.76	-45.19	-13.00	32.19	Vertical
7779	-47.11	12.06	-35.05	-13.00	22.05	Vertical
10372	-46.37	18	-28.37	-13.00	15.37	Vertical
5186	-49.44	3.75	-45.69	-13.00	32.69	Horizontal
7779	-45.96	10.82	-35.14	-13.00	22.14	Horizontal
10372	-46.23	17.36	-28.87	-13.00	15.87	Horizontal
Highest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5360	-48.46	3.67	-44.79	-13.00	31.79	Vertical
8040	-46.92	11.88	-35.04	-13.00	22.04	Vertical
10720	-46.19	17.61	-28.58	-13.00	15.58	Vertical
5360	-48.98	3.84	-45.14	-13.00	32.14	Horizontal
8040	-45.87	10.73	-35.14	-13.00	22.14	Horizontal
10720	-45.8	17.08	-28.72	-13.00	15.72	Horizontal
Remark:						
<i>The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.</i>						

2CA Mode:

LTE band 41 (10+10 MHz) - QPSK						
Lowest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5012	-49.54	4.39	-45.15	-13.00	32.15	Vertical
7518	-47.58	11.21	-36.37	-13.00	23.37	Vertical
10024	-46.82	18.47	-28.35	-13.00	15.35	Vertical
5012	-49.36	3.92	-45.44	-13.00	32.44	Horizontal
7518	-46.53	10.98	-35.55	-13.00	22.55	Horizontal
10024	-45.7	17.45	-28.25	-13.00	15.25	Horizontal
Middle channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5186	-49.25	4.13	-45.12	-13.00	32.12	Vertical
7779	-47.01	11.55	-35.46	-13.00	22.46	Vertical
10372	-46.95	17.99	-28.96	-13.00	15.96	Vertical
5186	-48.67	3.36	-45.31	-13.00	32.31	Horizontal
7779	-46	10.7	-35.3	-13.00	22.3	Horizontal
10372	-45.6	17.13	-28.47	-13.00	15.47	Horizontal
Highest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5360	-49.72	3.74	-45.98	-13.00	32.98	Vertical
8040	-47.68	11.19	-36.49	-13.00	23.49	Vertical
10720	-46.7	18.3	-28.4	-13.00	15.4	Vertical
5360	-48.94	3.69	-45.25	-13.00	32.25	Horizontal
8040	-46.26	10.67	-35.59	-13.00	22.59	Horizontal
10720	-45.43	16.67	-28.76	-13.00	15.76	Horizontal
Remark:						
<i>The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.</i>						

LTE band 41 (20+20 MHz) - QPSK						
Lowest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5032	-49.58	4.25	-45.33	-13.00	32.33	Vertical
7548	-47.23	11.8	-35.43	-13.00	22.43	Vertical
10064	-47.24	18.54	-28.7	-13.00	15.7	Vertical
5032	-49.21	3.39	-45.82	-13.00	32.82	Horizontal
7548	-46.21	10.37	-35.84	-13.00	22.84	Horizontal
10064	-46.59	17.41	-29.18	-13.00	16.18	Horizontal
Middle channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5186	-49.23	4.14	-45.09	-13.00	32.09	Vertical
7779	-47.11	11.59	-35.52	-13.00	22.52	Vertical
10372	-46.65	18.59	-28.06	-13.00	15.06	Vertical
5186	-49.12	3.67	-45.45	-13.00	32.45	Horizontal
7779	-46.73	10.22	-36.51	-13.00	23.51	Horizontal
10372	-45.82	17.29	-28.53	-13.00	15.53	Horizontal
Highest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5340	-49.59	3.73	-45.86	-13.00	32.86	Vertical
8010	-47.38	12.23	-35.15	-13.00	22.15	Vertical
10680	-47.15	17.84	-29.31	-13.00	16.31	Vertical
5340	-48.86	3.58	-45.28	-13.00	32.28	Horizontal
8010	-46.52	10.42	-36.1	-13.00	23.1	Horizontal
10680	-45.82	17.7	-28.12	-13.00	15.12	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.						

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