

ACCREDITED Test Lab Cert 2764.01	CC LISTED, REGISTRATION UMBER: 2764.01 Test report No: SED LISTED REGISTRATION 2477ERM.005 UMBER: 23595-1		
Test report USA FCC Part 96 CITIZENS BROADBAND RADIO SERVICE DEVICES OPERATING WITHIN THE BAND 3550-3700 MHz.			
Identification of item tested	Citizens Band Category A and B Devices		
Trademark	Baicells		
Model and /or type reference	mBS1105		
Other identification of the product	FCC ID: 2AG32MBS110596		
Features			
Manufacturer	Baicells Technologies Co., Ltd. 3F, Hui Yuan Development Building, No.1 Shangdi Information Industry Base, Haidian Dist., Beijing, PR China, 100085.		
Test method requested, standard	USA FCC Part 96 CITIZENS BROADBAND RADIO SERVICE DEVICES OPERATIONG WITHIN THE BAND 3550-3700 MHz. FCC KDB 940660 D01 Part 96 CBRS Eqpt v02: Certification and Test Procedures for Citizens Broadband Radio Service Devices Authorized Under Part 96 FCC KDB 662911 D01 Multiple Transmitter Output v02r01: Emissions Testing of Transmitters with Multiple Outputs in the Same Band ANSI TIA-603D: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards		
Summary	IN COMPLIANCE		
Approved by (name / position & signature)	Domingo Galvez EMC&RF Lab Manager		
Date of issue	08-23-2019		
Report template No	FDT08_21		



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Competences and guarantees

DEKRA Certification Inc. is a testing laboratory accredited by A2LA (The American Association for Laboratory Accreditation), to perform the tests indicated in the Certificate 2764.01

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To assure the traceability to other national and international laboratories, DEKRA Certification Inc. has a calibration and maintenance program for its measurement equipment.

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Uncertainty

Uncertainty (factor k=2) was calculated according to the DEKRA Certification internal document PODT000.

Frequency (MHz)	U(k=2)	Units
30-180	3.82	dB
180-1000	2.61	dB
1000-18000	2.92	dB
18000-40000	2.15	dB



Data provided by the client

Baicells mBS1105 is high performance outdoor micro base station based on LTE TDD technology.

DEKRA declines any responsibility with respect to the information provided by the client and that may affect the validity of results.

Usage of samples

Samples undergoing test have been selected by: The client.

Sample S/01 is composed of the following elements:

Control Nº	Description	Model	Serial N ^o	Date of reception
2477.05	LTE-TDD Base Station	MBS1105	120200007218B8J0153	03/22/2019
2477.04	Power supply	EUV-300S048ST	1746MT153333	03/22/2019

1. Sample S/01 has undergone following test(s):

All conducted and radiated tests indicated in appendix A.



Test sample description

Product specification	Description	Yes/No
Device Name/Model #	mBS1105	
	Wide area Base Station (Macro Cell)	No
Deep Station Class	Medium Range Base Stations (Micro Cell)	Yes
Base Station Class	Local area Base Station (Pico cell)	No
	Home Base Station (Femto cell)	No
Cotogony of CRSD	Category A	No
Category of CBSD	Category B	Yes
Type of Installation	Professional Installation	Yes
DC power supply voltage	48V AC/DC Adapter	
RF Test Tool Software of CBSD	DVT	
	10MHz: 3555 MHz — 3695 MHz	
TX Frequency	20MHz: 3560 MHz — 3690 MHz	
	10MHz: 3555 MHz — 3695 MHz	
RX Frequency	20MHz: 3560 MHz — 3690 MHz	
Maximum Output Power	10 MHz BW: 27 dBm	
to Antenna	20 MHz BW: 23 dBm	
Maximum 99% Occupied	20 MHz	
Bandwidth		Vee
	QPSK	Yes
Type of Modulation	16QAM	Yes
	64QAM	Yes
	256QAM	No
Antenna Information	Model: Directional antenna	
Duty Cycle	67.8 %	
MIMO Information	 # of output port: 2 # of input port: 2 # of output ports transmitting simultaneously: 2 List all MIMO configurations supported: 2 ports transmitting on a single carrier 	



Identification of the client

Baicells Technologies Co., Ltd.

3F, Hui Yuan Development Building, No.1 Shangdi Information Industry Base, Haidian Dist., Beijing, PR China, 100085

Testing period and place

Test Location	DEKRA Certification Inc.
Date (start)	03-25-2019
Date (finish)	04-24-2019

Document history

Report number	Date	Description
2477ERM.005	08-23-2019	First release



Environmental conditions

In the control chamber, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

In the semi anechoic chamber, the following limits were not exceeded during the test.

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

In the chamber for conducted measurements, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 60 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar



Remarks and comments

The tests have been performed by the technical personnel: Sravani Gollamudi, Koji Nishimoto and Poojita Bhattu.

Testing verdicts

Not applicable :	N/A
Pass :	Ρ
Fail :	F
Not measured :	N/M

Summary

FCC Part 96 Paragraph				
Section	Part 96. Spec Clause	Test Description	Verdict	Remark
A.1	§ 96.41 (b)	Maximum Effective Isotopic Radiated Power (EIRP)	Р	N/A
A.2	§ 2.1046	Conducted Output Power	Р	N/A
A.3	§ 2.1049	99% OBW and -26db Bandwidth	Р	N/A
A.4	§ 96.41 (b)	Maximum Power Spectral Density (PSD)	Р	N/A
A.5	§ 96.41 (g)	Peak to Average Power Ratio (PAPR)	Р	N/A
A.6	§ 2.1051, 96.41 (e)	3.5 GHz Emission and Interference limits	Р	N/A
A.7	§ 2.1051, 96.41 (e)	Spurious Emissions at Antenna Terminals	Р	N/A
A .8	§ 2.1053	Radiated Spurious Emission	Р	N/A
A.9	§ 2.1055	Frequency Stability	Р	N/A



List of equipment used during the test

Conducted Measurements

CONTROL NUMBER	DESCRIPTION	LAST CALIBRATION	NEXT CALIBRATION
1039	Signal analyzer Rohde & Schwarz FSV40	2018/03	2020/03
1010	EMI Test Receiver Rohde & Schwarz ESR 7	2019/08	2021/08
101	Climatic chamber Espec	2019/01	2020/01

Radiated Measurements

CONTROL NUMBER	DESCRIPTION	LAST CALIBRATION	NEXT CALIBRATION
1179	Semi anechoic Absorber Lined Chamber Frankonia SAC 3 plus "L"	N/A	N/A
1064	BiconicalLog antenna ETS LINDGREN 3142E	2017/03	2020/03
1058	Double-ridge Waveguide Horn antenna 750 MHz-18 GHz	2017/03	2020/03
1056	Double-ridge Waveguide Horn antenna 18- 40 GHz	2016/12	2019/12
1014	Spectrum analyzer Rohde & Schwarz FSV40	2019/04	2021/04
1012	EMI Test Receiver Rohde & Schwarz ESR 26	2018/09	2020/09
1015,1017, 1019, 1020	Rohde & Schwarz EMC32 software	N/A	N/A



Appendix A: Test results



Appendix A Content

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DESCRIPTION OF TEST CONDITIONS

TEST CONDITIONS	DESCRIPTION
	Power supply (V):
	V _{nominal} = 48 Vdc
	Type of power supply:
	DC voltage from AC/DC power supply.
	Temperature (°C):
	$T_{nom} = +15 \text{ to } + 35$
	T _{min} = -40 (*)
	T _{max} = +55 (*)
	The subscript nom indicates normal test conditions.
	The subscripts min and max indicate extreme test conditions (minimum and maximum respectively).
	N/A: Not Applicable.
	(*) Declared by applicant.
TC#01	All the tests were performed by using the full RB configuration according to the manufacturer's statement that mBS1105 can transmit only with full RBs in the CBRS band LTE B48.
LTE Band 48	All supported modulations were evaluated and QPSK was identified as worst case.
	All three orientations (X, Y, and Z) of the DUT were evaluated to determine the worst DUT orientation with the strongest fundamental signal in the radiated emission pre-scan tests. All the radiated emission tests were performed by using the worst DUT orientation.
	Test Frequencies for Conducted and Radiated tests: -10 MHz Bandwidth (50 RB):
	Lowest Channel (3555 MHz)
	Middle Channel (3625 MHz)
	Highest Channel (3695 MHz)
	-20 MHz Bandwidth (100 RB):
	Lowest Channel (3560 MHz)
	Middle Channel (3625 MHz)
	Highest Channel (3690 MHz)



TEST A.1: MAXIMUM EFFECTIVE ISOTOPIC RADIATED POWER (EIRP) TEST A.2: CONDUCTED OUTPUT POWER

	Product standard:	Part 96.41 Subclause (b)
LIWITS:	Test standard:	ANSI C63.26-2015

<u>LIMITS</u>

The maximum effective isotropic radiated power (EIRP) and maximum Power Spectral Density (PSD) of any CBSD and End User Device must comply with the limits shown in the following table.

Device	Maximum EIRP (dBm/ 10 MHz)	Maximum PSD (dBm/MHz)
End User Device	23	n/a
Category A CBSD	30	20
Category B CBSD	47	37

TEST SETUP:

The procedure in Section 5.2 of ANSI C63.26-2015 is acceptable for performing power measurements. Measurements can be made using either a peak or average (RMS) detector, if the appropriate procedure is followed. The RMS detector was used for the measurement at each frequency with following the procedure stated in the Section 5.2.4.4.2 of ANSI C63.26-2015.



EIRP was tested with a minimum, half, and maximum number of RBs for all the BWs and identified that the worst case is using full RBs. All the tests were performed by using the full RBs.

The maximum equivalent isotopically radiated power (e.i.r.p.) is calculated by adding the declared maximum antenna gain (dBi) and 10 log (1/duty cycle) was added in RF level offset to get the accurate measured power level in the average power measurement.

The duty cycle correction = $10 \log (1/0.68) = 1.67 (dB)$



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (Band 48)
TEST RESULTS:	PASS

<u>2X2 MIMO</u>

<u>10MHz BW</u>

Port 1 and 2

QPSK

	Lowest frequency 3555 MHz	Middle frequency 3625 MHz	Highest frequency 3695 MHz
Power at Port 1 (dBm/10 MHz)	26.17	26.42	26.74
Power at Port 2 (dBm/10 MHz)	26.16	26.85	26.10
Summed Power (dBm/10 MHz)	29.18	29.65	29.44
Maximum declared antenna gain (dBi)	17.00	17.00	17.00
Maximum EIRP (dBm/10 MHz)	46.18	46.65	46.44
Measurement uncertainty (dB)		< ± 0.95	

64QAM

	Lowest frequency 3555 MHz	Middle frequency 3625 MHz	Highest frequency 3695 MHz
Power at Port 1 (dBm/10 MHz)	25.44	25.89	25.15
Power at Port 2 (dBm/10 MHz)	25.56	25.27	25.48
Summed Power (dBm/10 MHz)	28.51	28.60	28.33
Maximum declared antenna gain (dBi)	17.00	17.00	17.00
Maximum EIRP (dBm/10 MHz)	45.51	45.60	45.33
Measurement uncertainty (dB)		< ± 0.95	



20MHz BW

Port 1 and 2

<u>QPSK</u>

	Lowest frequency	Middle frequency	Highest frequency
	3560 MHz	3625 MHz	3690 MHz
Power at Port 1 (dBm/10 MHz)	22.06	21.70	22.24
Power at Port 2 (dBm/10 MHz)	21.83	20.88	21.44
Summed Power (dBm/10 MHz)	24.96	24.32	24.87
Maximum declared antenna gain (dBi)	17.00	17.00	17.00
Maximum EIRP (dBm/10 MHz)	41.96	41.32	41.87
Measurement uncertainty (dB)		< ± 0.95	

<u>64QAM</u>

	Lowest frequency 3560 MHz	Middle frequency 3625 MHz	Highest frequency 3690 MHz
Power at Port 1 (dBm/10 MHz)	21.10	19.69	20.44
Power at Port 2 (dBm/10 MHz)	21.08	19.84	19.91
Summed Power (dBm/10 MHz)	24.10	22.78	23.19
Maximum declared antenna gain (dBi)	17.00	17.00	17.00
Maximum EIRP (dBm/10 MHz)	41.10	39.78	40.19
Measurement uncertainty (dB)		< ± 0.95	



20MHz BW Reference only

Port 1 and 2

<u>QPSK</u>

	Lowest frequency 3560 MHz	Middle frequency 3625 MHz	Highest frequency 3690 MHz
Power at Port 1 (dBm/20 MHz)	23.27	23.34	23.23
Power at Port 2 (dBm/20 MHz)	23.22	22.97	23.32
Summed Power (dBm/20 MHz)	26.26	26.17	26.29
Maximum declared antenna gain (dBi)	17.00	17.00	17.00
Maximum EIRP (dBm/20 MHz)	43.26	43.17	43.29
Measurement uncertainty (dB)		< ± 0.95	

<u>64QAM</u>

	Lowest frequency	Middle frequency	Highest frequency
Power at Port 1 (dBm/20 MHz)	22.57	22.24	22.88
Power at Port 2 (dBm/20 MHz)	22.92	22.40	22.46
Summed Power (dBm/20 MHz)	25.76	25.33	25.69
Maximum declared antenna gain (dBi)	17.00	17.00	17.00
Maximum EIRP (dBm/20 MHz)	42.76	42.33	42.69
Measurement uncertainty (dB)		< ± 0.95	

(See plots below showing QPSK Only)



Port 1:

10 MHz BW Lowest Channel (3555 MHz)



Middle Channel (3625 MHz)





Highest Channel (3695 MHz)



<u>20 MHz BW</u>









Highest Channel (3690 MHz)





Port 2:

10 MHz BW Lowest Channel (3555 MHz)



Middle Channel (3625 MHz)





Highest Channel (3695 MHz)



<u>20 MHz BW</u>









Highest Channel (3690 MHz)

Ref Level 50.00 dBm Offset 20.28 dB 👄 RBW 500 kHz Att 45 dB 🖷 SWT 10 s 👄 VBW 2 MHz Mode Auto Sweep Input 1 AC PS 01Rm View 40 dBm-30 dBm-20 dBm-10 dBm· 0 dBm--10 dBm--20 dBm--30 dBm--40 dBm-CF 3.69 GHz 1000 pts Span 40.0 MHz Channel Power Bandwidth 10.00 MHz Power 21.44 dBm Tx Total 21.44 dBm



20MHz BW Reference only

<u>QPSK</u> <u>Port 1</u>

Lowest Channel (3560 MHz)



Middle Channel (3625 MHz)







<u>Port 2</u>











TEST A.3: 99% O	BW AND -26 DB BANDWID	ſĦ		
	Product standard:	Part 2.1049		
LIMITS:	Test standard:	ANSI C63.26-2015		
LIMITS The 99% occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. The -26 dB Bandwidth is the bandwidth of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB from the peak of the carrier.				
The 99% occupied measuring option o	berop: I bandwidth and the -26dB bandwic f signal analyzer with following the 53.26-2015 and the section 4.2 and Spectrum Analyzer	Ith were measured directly using the built-in bandwidth procedure stated in the section 5.4.3 and 5.4.4 of ANSI 4.3 of FCC KDB 971168 D01 v03 r01.		
	Non-Co Ta	erence Plane		



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (Band 48)
TEST RESULTS:	PASS
<u>10 MHz BW</u>	
Port 1	
QPSK	

	Lowest frequency	Middle frequency	Highest frequency
	3555 MHz	3625 MHz	3695 MHz
99% OBW (MHz)	9.02	9.02	9.02
-26 dB Bandwidth (MHz)	9.93	9.96	9.99
Measurement uncertainty (kHz)		<± 8.33	

<u>64QAM</u>

Γ		Lowest frequency	Middle frequency	Highest frequency
		3555 MHz	3625 MHz	3695 MHz
	99% OBW (MHz)	9.00	9.02	9.00
	-26 dB Bandwidth (MHz)	9.75	9.75	9.70
ſ	Measurement uncertainty (kHz)		<± 8.33	

<u>Port 2</u>

<u>QPSK</u>

	Lowest frequency 3555 MHz	Middle frequency 3625 MHz	Highest frequency 3695 MHz
99% OBW (MHz)	9.00	9.02	9.04
-26 dB Bandwidth (MHz)	9.90	9.96	9.99
Measurement uncertainty (kHz)		<± 8.33	

<u>64QAM</u>

	Lowest frequency	Middle frequency	Highest frequency
	3555 MHz	3625 MHz	3695 MHz
99% OBW (MHz)	8.94	8.94	8.94
-26 dB Bandwidth (MHz)	9.64	9.64	9.64
Measurement uncertainty (kHz)		<± 8.33	



20MHz BW

<u>Port 1</u>

<u>QPSK</u>

	Lowest frequency	Middle frequency	Highest frequency
	3560 MHz	3625 MHz	3690 MHz
99% OBW (MHz)	17.96	17.92	17.96
-26 dB Bandwidth (MHz)	19.56	19.52	19.56
Measurement uncertainty (kHz)		<± 8.33	

<u>64QAM</u>

	Lowest frequency	Middle frequency	Highest frequency
	3560 MHz	3625 MHz	3690 MHz
99% OBW (MHz)	17.92	17.88	17.88
-26 dB Bandwidth (MHz)	19.00	18.92	18.84
Measurement uncertainty (kHz)		<± 8.33	

Port 2

QPSK

	Lowest frequency 3560 MHz	Middle frequency 3625 MHz	Highest frequency 3690 MHz
99% OBW (MHz)	17.92	17.92	17.96
-26 dB Bandwidth (MHz)	19.40	19.60	19.56
Measurement uncertainty (kHz)		<± 8.33	

<u>64QAM</u>

	Lowest frequency	Middle frequency	Highest frequency
	3560 MHz	3625 MHz	3690 MHz
99% OBW (MHz)	17.92	17.92	17.92
-26 dB Bandwidth (MHz)	19.00	19.04	19.04
Measurement uncertainty (kHz)		<± 8.33	

See plots below



<u>Port 1</u>

<u>10 MHz BW</u>

QPSK

Lowest Channel (3555 MHz)



Middle Channel (3625 MHz)





High Channel (3695 MHz)



64QAM

Lowest Channel (3555 MHz)

Ref Level 50.00 dBm Offset 20.28 dB 👄 RBW 300 kHz Att 45 dB 👄 SWT 5 s 👄 VBW 1 MHz Mode Auto Sweep Input 1 AC PS ∋1Pk View M1[1] 18.88 dBm 3.5650000 GHz 40 dBm-Occ Bw 9.00000000 MHz 30 dBm· ¥ **₹**2 20 dBm· 10 dBm-0 dBm--10 dBm--20 dBm--30 dBm--40 dBm-Span 20.0 MHz CF 3.555 GHz 1000 pts







20 MHz BW

QPSK

Lowest Channel (3560 MHz)



Middle Channel (3625 MHz)





High Channel (3690 MHz)



64QAM

Lowest Channel (3560 MHz)





TEST RESULTS (Cont.): Middle Channel (3625 MHz) Ref Level 50.00 dBm Offset 20.28 dB 👄 RBW 300 kHz Att 45 dB 👄 SWT 5 s 👄 VBW 1 MHz Mode Auto Sweep Input 1 DC PS ⊖1Pk View M1[1] -21.81 dBm 3.6050000 GHz 40 dBm-Occ Bw 17.88000000 MHz 30 dBm 20 dBm 10 dBm 0 dBm -10 dBm -20 dBr number -30 dBm-40 dBm CF 3.625 GHz 1000 pts Span 40.0 MHz High Channel (3690 MHz) Ref Level 50.00 dBm Offset 20.28 dB 👄 RBW 300 kHz





-26dB Bandwidth

<u>10 MHz BW</u>

QPSK

Lowest Channel (3555 MHz)



Middle Channel (3625 MHz)







Ref Level 50.00 dBm Offset 20.28 dB 👄 RBW 300 kHz Att 45 dB 👄 SWT 5 s 👄 VBW 1 MHz Mode Auto Sweep Input 1 AC PS ⊖1Pk View D2[1] 28.06 dE -5.2100 MHz 40 dBm 28.69 dBm 3.6951740 GHz M1[1] 30 dBm-20 dBm 10 dBm ΒЗ D 0 dBm--10 dBm--20 dBm--30 dBm-40 dBm-CF 3.695 GHz 691 pts Span 20.0 MHz Marker Type Ref Trc Function Result X-value Y-value Function 3.695174 GHz 28.69 dBm Μ1 D2 M1 -5.21 MHz -28.06 dB 1.06 dB D3 D2 9.986 MHz

64QAM

Lowest Channel (3555 MHz)





Middle Channel (3625 MHz)



High Channel (3695 MHz)





20 MHz BW

QPSK

Lowest Channel (3560 MHz)



Middle Channel (3625 MHz)





High Channel (3690 MHz)



64QAM

Lowest Channel (3560 MHz)





TEST RESULTS (Cont.): Middle Channel (3625 MHz) Ref Level 50.00 dBm Offset 20.28 dB 👄 RBW 300 kHz 45 dB 👄 SWT 5 s 👄 VBW 1 MHz Att Mode Auto Sweep Input 1 DC PS ⊖1Pk View D3[1] -0.88 dE 18.9200 MHz 40 dBm M1[1] 26.87 dBm 3.6251000 GHz 30 dBm-20 dBm-10 dBm-0 dBm -10 dBm -20 dBm the state of the s -30 dBm--40 dBm-CF 3.625 GHz 1000 pts Span 40.0 MHz Marker Y-value 26.87 dBm Type Ref Trc X-value Function Function Result 3.6251 GHz M1 1 -9.56 MHz -26.81 dB D2 Μ1 D3 D2 18.92 MHz -0.88 dB High Channel (3690 MHz) Ref Level 50.00 dBm Offset 20.28 dB 👄 RBW 300 kHz 45 dB 👄 SWT 5 s 👄 VBW 1 MHz Att Mode Auto Sweep Input 1 DC PS ∋1Pk View D3[1] 0.21 dB 18.8400 MHz 40 dBm M1[1] 28.34 dBm 3.6900200 GHz 30 dBm 20 dBm

Μ., 10 dBm вз D2 0 dBm -10 dBm--26 dBm which leaves -longel -30 dBm--40 dBm· 1000 pts Span 40.0 MHz CF 3.69 GHz larker Type | Ref | Trc | X-value Y-value Function Function Result Μ1 3.69002 GHz 28.34 dBm D2 M1 -9.48 MHz -26.33 dB 18.84 MHz 0.21 dB D2 D3