





RF TEST REPORT

Applicant	Tag-N-Trac Inc.
FCC ID	2A24I-V07G0BJ17
Product	SmartSense Label
Brand	Tag-N-Trac Inc.
Model	SSL300
Report No.	R2306A0684-R6
Issue Date	August 18, 2023

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 2 (2022)**/ **FCC CFR47 Part 27C (2022)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Prepared by: Xu Ying

Approved by: Xu Kai

TA Technology (Shanghai) Co., Ltd.

Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China TEL: +86-021-50791141/2/3 FAX: +86-021-50791141/2/3-8000



TABLE OF CONTENT

1	Test	Laboratory	4
	1.1	Notes of the Test Report	4
	1.2.	Test facility	4
	1.3	Testing Location	4
2	Gen	eral Description of Equipment under Test	5
	2.1	Applicant and Manufacturer Information	5
	2.2	General information	5
3	Арр	lied Standards	6
4	Test	Configuration	7
5	Test	Case	8
	5.1	RF Power Output and Effective Isotropic Radiated Power	8
	5.2	Radiated Spurious Emission	
6	Test	Results	14
	6.1	RF Power Output and Effective Isotropic Radiated Power	14
	6.2	Radiated Spurious Emission	17
7	Mai	n Test Instruments	23
A	NNEX.	A: The EUT Appearance	24
A	NNEX	B: Test Setup Photos	25



Summary of Measurement Results

Number	Test Case	Clause in FCC rules	Verdict				
		2.1046					
1	RF Power Output and Effective Isotropic	/27.50(d)(4)	PASS				
	Radiated Power	/27.50(b)(10)	FA33				
		/27.50(c)(10)					
		2.1053					
2	Radiated Spurious Emission	/27.53(h)	PASS				
2		/27.53(g)					
		/27.53(f) /27.53(c)					
Date of Te	sting: June 19, 2023 and July 7, 2023						
Date of Sa	ample Received: June 15, 2023						
Note: PAS	S: The EUT complies with the essential requ	irements in the standard.					
FAIL	: The EUT does not comply with the essentia	al requirements in the standard.					
All indicati	All indications of Pass/Fail in this report are opinions expressed by TA Technology (Shanghai) Co., Ltd. based						
on interpre	etations and/or observations of test results. N	leasurement Uncertainties were not taken i	nto account				
and are pu	ublished for informational purposes only.						

Only Radiated Spurious Emission is tested for SSL300 in this report, and because of the change of antenna gain, Effective Isotropic Radiated Power also re evaluated. Other test items refer to the Module report (Report No.: R2112A1193-R8, FCC ID: XMR2022BG772AGL).

1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein .Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2. Test facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3 Testing Location

Company:	TA Technology (Shanghai) Co., Ltd.
Address:	Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China
City:	Shanghai
Post code:	201201
Country:	P. R. China
Contact:	Xu Kai
Contact: Telephone:	Xu Kai +86-021-50791141/2/3
••••••	
Telephone:	+86-021-50791141/2/3



2 General Description of Equipment under Test

2.1 Applicant and Manufacturer Information

Applicant	Tag-N-Trac Inc.
Applicant address	4250 Executive Sq, #675, La Jolla, California, United States, 92037
Manufacturer	Tag-N-Trac Inc.
Manufacturer address	4250 Executive Sq, #675, La Jolla, California, United States, 92037

2.2 General information

EUT Description								
Model	SSL300							
IMEI	868617060225648							
Hardware Version	V1.1							
Software Version	IRONHIDE_00_11_LO							
Power Supply	Battery / External power s	upply						
Antenna Type	PCB Antenna							
	Mode		Ga	in (dBi)				
	LTE-M Band 4			2.32				
Antenna Gain	LTE-M Band 12			1.67				
	LTE-M Band 13			3.61				
	LTE-M Band 66			2.41				
Test Mode(s)	LTE-M Band 4/12/13/66;							
Test Modulation	QPSK, 16QAM;							
LTE Category	M1							
	LTE-M Band 4:	26.12	2 dBm					
Maximum E.I.R.P./ E.R.P.	LTE-M Band 12:	23.24	24 dBm					
Maximum E.I.N.F./ E.N.F.	LTE-M Band 13:	LTE-M Band 13: 25.15						
	LTE-M Band 66:	26.20) dBm					
Rated Power Supply Voltage	3.7V							
Operating Voltage	Minimum: 2.5V Maximu	ım: 4.2	.V					
Operating Temperature	Lowest: -20°C Highest	t: 60°C	,					
Testing Temperature	Lowest: -30°C Highest	t: 50°C	;					
	Mode		Tx (MHz)	Rx (MHz)				
	LTE-M Band 4	1	710 ~ 1755	2110 ~ 2155				
Frequency Range(s)	LTE-M Band 12	(699 ~ 716	729 ~ 746				
	LTE-M Band 13		777 ~ 787	746 ~ 756				
	LTE-M Band 66	1	710 ~ 1780	2110 ~ 2180				
	EUT Accessory							
	Manufacturer: Shenzhen	/abo P	ower Technolo	gy Co., Ltd				
Battery	Mode: LP 218880							
	DC 3.7V, 1600mAh							
Note: The EUT is sent from the a	pplicant to TA and the inform	nation of	of the EUT is d	eclared by the				
applicant.								

TA Technology (Shanghai) Co., Ltd.TA-MB-05-003RPage 5 of 25This report shall not be reproduced except in full, without the written approval of TA Technology (Shanghai) Co., Ltd.



3 Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC CFR47 Part 27C (2022)

FCC CFR47 Part 2 (2022)

Reference standard:

ANSI C63.26-2015

KDB 971168 D01 Power Meas License Digital Systems v03r01

4 Test Configuration

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes. EUT stand-up position (Z axis), lie-down position (X, Y axis). Receiver antenna polarization (horizontal and vertical), the worst emission was found in position (X axis, horizontal polarization) and the worst case was recorded.

All mode and data rates and positions and RB size and modulations were investigated.

Subsequently, only the worst case emissions are reported.

The following testing in LTE-M is set based on the maximum RF Output Power.

The following testing in different Bandwidth is set to detailin the following table:

Test modes are chosen to be reported as the worst case configuration below for LTE-M Band 4/12/13/66:

Test items	Madaa	Modes Bandwidth (MHz)					Modulation		RB			Test Channel			
Test items	woues	1.4	3	5	10	15	20	QPSK	16QAM	1	50%	100%	L	Μ	Н
RF Power	LTE-M B4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Output and	LTE-M B12	0	0	0	0	-	-	0	0	0	0	0	0	0	0
Effective	LTE-M B13	-	-	0	0	-	-	0	0	0	0	0	0	0	0
Isotropic															
Radiated	LTE-M B66	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Power															
Radiated	LTE-M B4	0	-	0	-	-	0	0	-	0	-	-	-	0	-
	LTE-M B12	0	-	0	0	-	-	0	-	0	-	-	-	0	-
Spurious Emission	LTE-M B13	-	-	0	0	-	-	0	-	0	-	-	-	0	-
Emission	LTE-M B66	0	-	0	-	-	0	0	-	0	-	-	-	0	-
Niete	1. The mark	("O" n	neans	that t	his co	nfigura	ation i	s chosen	for testing	j .					
Note	2. The mark	к"-" m	eanst	that th	is con	figura	tion is	not testi	ng.						



5 Test Case

5.1 RF Power Output and Effective Isotropic Radiated Power

Ambient condition

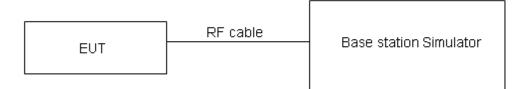
Temperature	Relative humidity				
20°C ~ 25°C	45% ~ 50%				

Methods of Measurement

During the process of the testing, The EUT was connected to the Base Station Simulator with a known loss. The EUT is controlled by the Base Station Simulator test set to ensure max power transmission with proper modulation.

ERP can then be calculated as follows: EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) EIRP (dBm) = ERP (dBm) + 2.15 (dB.)

Test Setup



Limits

No specific RF power output requirements in part 2.1046.

Rule Part 27.50(b) (10) specifies that "Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP"

Rule Part 27.50(c) (10) specifies that "Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP"

Rule Part 27.50(d) (4) specifies that "Fixed, mobile and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP"

Part 27.50(b)(10)Limit	\leqslant 3 W (34.77 dBm)
Part 27.50(c)(10)Limit	≤ 3 W (34.77 dBm)
Part 27.50(d)(4)Limit	\leqslant 1 W (30 dBm)



Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U=0.4 dB for RF power output, k = 2, U= 1.19 dB for ERP/EIRP.

Test Results

Refer to the section 6.1 of this report for test data.



5.2 Radiated Spurious Emission

Ambient condition

Temperature	Relative humidity
20°C ~ 25°C	45% ~ 50%

Method of Measurement

1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.8 and ANSI C63.26-2015.

2. Below 1GHz: The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H). Above 1GHz: (Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.) The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

3. A loop antenna, A log-periodic antenna or horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.

4. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=100kHz, VBW=300kHz for 30MHz to 1GHz and RBW=1MHz,

VBW=3MHz for above 1GHz, and the maximum value of the receiver should be recorded as (Pr). 5. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization. 6. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (PcI), the Substitution Antenna

Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.

7. The measurement results are obtained as described below:

Power(EIRP)=PMea- PAg - Pcl + Ga

The measurement results are amend as described below:

Power(EIRP)=PMea- Pcl + Ga

8. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dB) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP

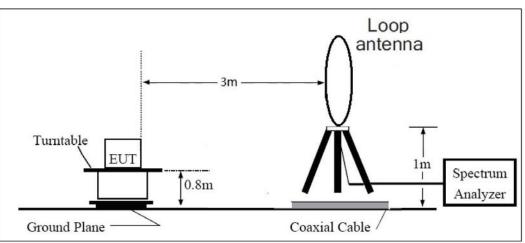


= EIRP-2.15dB.

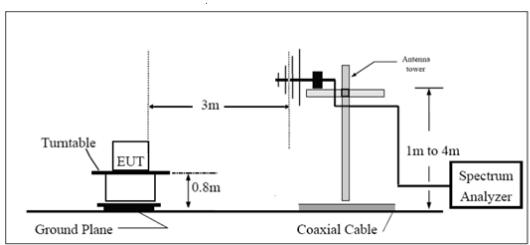
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup

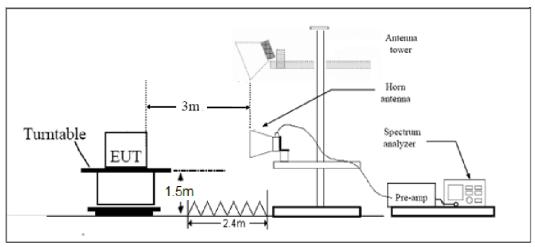
9KHz~ 30MHz











Note: Area side:2.4mX3.6m



Limits

LTE -4/66 Rule Part 27.53(h) specifies that "for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10 (P) dB."

LTE -12 Rule Part 27.53 (g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

LTE -13 Rule Part 27.53(f)For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

LTE 13 Part 27.53 (c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;

(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;

(3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

Part 27.53 (h)/(g) Limit	-13 dBm	
Part 27.53(f) Limit	Limit out of the band 1559-1610 MHz	-13 dBm
	Limit in the band 1559-1610 MHz	-40 dBm

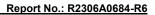
Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = \pm 1.96$, $U = \pm 3.55$ dB.



Test Results

Refer to the section 6.2 of this report for test data.





6 Test Results

6.1 RF Power Output and Effective Isotropic Radiated Power

LTE-M	Channel/	Index	RB#	RB#		Maximum Output Power(dBm)		EIRP (dBm)		
Band 4	Frequency(MHz)	Index	RBstart QPSK	RBstart 16QAM	QPSK	16QAM	QPSK	16QAM		
	19957/1710.7	0	1#0	1#0	23.53	22.50	25.85	24.82		
	1993/1110.7	0	6#0	5#0	22.13	21.58	24.45	23.90		
1.4MHz	20175/1732.5	0	1#0	1#0	23.41	22.32	25.73	24.64		
1.411172	20173/1732.3	0	6#0	5#0	22.12	21.48	24.44	23.80		
	20393/1754.3	0	1#5	1#5	23.62	22.42	25.94	24.74		
	20393/1734.3	0	6#0	5#0	22.17	21.59	24.49	23.91		
	19965/1711.5	0	1#0	1#0	23.63	22.61	25.95	24.93		
	19903/1711.3	0	6#0	5#0	21.88	21.57	24.20	23.89		
3MHz	20175/1732.5	0	1#0	1#0	23.62	22.68	25.94	25.00		
SIVITIZ	20175/1752.5	0	6#0	5#0	21.79	21.54	24.11	23.86		
	20385/1753.5	1	1#5	1#5	23.80	22.73	26.12	25.05		
	20303/1753.5	0	6#0	5#0	21.89	21.63	24.21	23.95		
	19975/1712.5	3	1#0	1#0	23.75	23.74	26.07	26.06		
		0	6#0	5#0	23.03	21.62	25.35	23.94		
5MHz	20175/1732.5	0	1#0	1#0	23.67	23.70	25.99	26.02		
		0	6#0	5#0	22.95	21.73	25.27	24.05		
	20375/1752.5	0	1#5	1#5	23.55	23.73	25.87	26.05		
		0	6#0	5#0	23.06	21.71	25.38	24.03		
	20000/1715	3	1#0	1#0	23.77	23.80	26.09	26.12		
	20000/1715	0	4#0	4#0	23.41	22.70	25.73	25.02		
10MHz	20175/1722 5	0	1#0	1#0	23.70	23.72	26.02	26.04		
	20175/1732.5	0	4#0	4#0	23.46	22.64	25.78	24.96		
	20350/1750	4	1#5	1#5	23.80	23.74	26.12	26.06		
		7	4#2	4#2	23.39	21.75	25.71	24.07		
	20025/1717 5	3	1#0	1#0	23.79	23.15	26.11	25.47		
	20025/1717.5	0	6#0	5#0	23.63	23.66	25.95	25.98		
15144-	20175/1722 5	0	1#0	1#0	23.67	23.64	25.99	25.96		
15MHz	20175/1732.5	0	6#0	5#0	23.59	23.53	25.91	25.85		
	20225/4747 5	8	1#5	1#5	23.77	23.69	26.09	26.01		
	20325/1747.5	11	6#0	5#0	23.64	23.47	25.96	25.79		
	20050/4720	3	1#0	1#0	23.77	23.80	26.09	26.12		
20MHz	20050/1720	0	6#0	5#0	23.62	23.62	25.94	25.94		
	20175/1732.5	0	1#0	1#0	23.70	23.71	26.02	26.03		

TA-MB-05-003R

This report shall not be reproduced except in full, without the written approval of TA Technology (Shanghai) Co., Ltd.



RF T	est Report			Report No.: R2306A0684-R6						
		0	6#0	5#0	23.61	23.58	25.93	25.90		
	20300/1745	12	1#5	1#5	23.72	23.66	26.04	25.98		
	20300/1745	15	6#0	5#0	23.60	23.49	25.92	25.81		

LTE-M	Channel/	Index	RB#	RB#		m Output r(dBm)	ERP	(dBm)
Band12	Frequency(MHz)	Index	RBstart QPSK	RBstart 16QAM	QPSK	16QAM	QPSK	16QAM
	23017/699.7	0	1#0	1#0	23.53	22.88	23.05	22.40
	230177099.7	0	6#0	5#0	22.49	21.92	22.01	21.44
1.4MHz	23095/707.5	0	1#0	1#0	23.37	22.80	22.89	22.32
	23095/101.5	0	6#0	5#0	22.33	21.87	21.85	21.39
	23173/715.3	0	1#5	1#5	23.19	22.78	22.71	22.30
	23173/113.3	0	6#0	5#0	22.89	21.74	22.41	21.26
	23025/700.5	0	1#0	1#0	23.64	23.18	23.16	22.70
	23025/700.5	0	6#0	5#0	22.25	22.00	21.77	21.52
3MHz	23095/707.5	0	1#0	1#0	23.53	23.06	23.05	22.58
SIVITZ	23095/707.5	0	6#0	5#0	22.15	21.93	21.67	21.45
	0016E/714 E	1	1#5	1#5	23.24	23.00	22.76	22.52
	23165/714.5	0	6#0	5#0	22.06	21.74	21.58	21.26
	23035/701.5	3	1#0	1#0	23.52	23.33	23.04	22.85
	23035/701.5	0	6#0	5#0	23.24	22.11	22.76	21.63
5MHz	2200E/707 E	0	1#0	1#0	23.47	23.33	22.99	22.85
SIVIFIZ	23095/707.5	0	6#0	5#0	23.30	22.13	22.82	21.65
	00455/740 5	0	1#5	1#5	23.55	23.33	23.07	22.85
	23155/713.5	0	6#0	5#0	23.08	21.93	22.60	21.45
	00000/704	3	1#0	1#0	23.48	23.30	23.00	22.82
	23060/704	0	4#0	4#0	23.67	23.07	23.19	22.59
10MHz	23095/707.5	0	1#0	1#0	23.51	23.37	23.03	22.89
	23095/707.5	0	4#0	4#0	23.67	23.14	23.19	22.66
	23130/711	4	1#5	1#5	23.51	23.34	23.03	22.86
	23130/711	7	4#2	4#2	23.72	22.04	23.24	21.56

LTE-M	Channel/	Index	RB#	RB#		m Output r(dBm)	ERP (dBm)	
Band13	Frequency(MHz)	Index	RBstart QPSK	RBstart 16QAM	QPSK	16QAM	QPSK	16QAM
	23205/779.5	3	1#0	1#0	23.43	23.19	24.89	24.65
	23205/119.5	0	6#0	5#0	23.14	21.86	24.60	23.32
5MHz	23230/782	0	1#0	1#0	23.69	23.28	25.15	24.74
	23230/762	0	6#0	5#0	23.11	21.87	24.57	23.33
	22255/704 5	0	1#5	1#5	23.60	23.42	25.06	24.88
	23255/784.5		6#0	5#0	23.04	21.75	24.50	23.21

TA Technology (Shanghai) Co., Ltd.TA-MB-05-003RPage 15This report shall not be reproduced except in full, without the written approval of TA Technology (Shanghai) Co., Ltd. Page 15 of 25



RF Test Report Report No.: R2306A06								
10MHz	23230/782	0	1#0	1#0	23.40	23.24	24.86	24.70
	23230/762	0	4#0	4#0	23.55	22.89	25.01	24.35

Band66 Frequency(MHz) RBstart QPSK R6QAM 16QAM QPSK 16QAM QPSK	LTE-M	Channel/	Index	RB#	RB#		m Output r(dBm)	EIRP	(dBm)
131979/1710.7 0 6#0 5#0 22.15 21.59 24.56 24.00 1.4MHz 132322/1745 0 1#0 1#0 23.43 21.82 25.84 24.23 132665/1779.3 0 1#5 1#5 23.72 22.53 26.13 24.94 132665/1779.3 0 6#0 5#0 22.10 21.60 24.51 24.01 131987/1711.5 0 6#0 5#0 22.10 21.60 24.51 24.01 3MHz 131987/1711.5 0 1#0 1#0 23.62 22.60 26.03 25.01 132322/1745 0 1#0 1#0 23.60 22.62 26.01 25.03 132657/1778.5 0 6#0 5#0 21.92 21.66 24.33 24.07 131997/1712.5 3 1#0 1#0 23.67 26.12 26.08 25.7 24.00 132647/1777.5 0 1#5 23.77 23.66 26.01	Band66	Frequency(MHz)	Index			QPSK	16QAM	QPSK	16QAM
1.4MHz 0 6#0 5#0 22.15 21.59 24.56 24.00 132322/1745 0 1#0 1#0 23.43 21.82 25.84 24.23 132665/1779.3 0 1#5 1#5 23.72 22.53 26.13 24.44 23.93 3MHz 132665/1779.3 0 1#5 1#5 23.72 22.60 26.03 25.01 24.01 131987/1711.5 0 1#0 1#0 23.62 22.60 26.03 25.01 132322/1745 0 1#0 1#0 23.60 22.62 26.01 25.03 132657/1778.5 1 1#5 145 23.79 22.78 26.20 25.19 132657/1778.5 1 1#5 140 23.61 24.00 25.27 24.00 13222/1745 0 6#0 5#0 22.86 21.59 25.27 24.00 132647/1777.5 0 6#0 5#0 22.86 21.59 25.2		131070/1710 7	0	1#0	1#0	23.52	22.52	25.93	24.93
1.4MHz 132322/1745 0 6#0 5#0 22.03 21.52 24.44 23.93 132665/1779.3 0 1#5 1#5 23.72 22.53 26.13 24.94 131987/1711.5 0 6#0 5#0 22.10 21.60 24.51 24.01 3MHz 131987/1711.5 0 1#0 1#0 23.62 22.60 26.03 25.01 132322/1745 0 1#0 1#0 23.60 22.62 26.01 25.03 132657/1778.5 1 1#5 1#5 23.79 22.78 26.20 25.19 131997/1712.5 3 1#0 1#0 23.61 24.33 24.07 131997/1712.5 3 1#0 1#0 23.61 26.12 26.08 13222/1745 0 6#0 5#0 22.86 21.59 25.27 24.00 132647/1777.5 0 6#0 5#0 22.87 21.57 25.28 23.98		131979/1710.7	0	6#0	5#0	22.15	21.59	24.56	24.00
0 6#0 5#0 22.03 21.52 24.44 23.93 132665/1779.3 0 1#5 1#5 23.72 22.53 26.13 24.94 131987/1711.5 0 6#0 5#0 22.10 21.60 24.51 24.94 131987/1711.5 0 1#0 1#0 23.62 22.60 26.03 25.03 3MHz 132322/1745 0 1#0 1#0 23.60 22.62 26.01 25.03 132657/1778.5 0 6#0 5#0 21.78 21.54 24.19 23.95 132657/1778.5 1 1#5 1#5 23.79 22.78 26.02 25.19 131997/1712.5 0 6#0 5#0 22.86 21.59 25.27 24.00 132322/1745 0 1#0 1#0 23.60 23.68 26.01 26.09 132647/1777.5 0 1#5 1#5 23.77 23.64 26.12 26.05 25.09	1.4MHz	132322/1745	0	1#0	1#0	23.43	21.82	25.84	24.23
132665/1779.3 0 6#0 5#0 22.10 21.60 24.51 24.01 131987/1711.5 0 1#0 1#0 23.62 22.60 26.03 25.01 3MHz 132322/1745 0 1#0 1#0 23.60 22.62 26.01 25.03 132322/1745 0 1#0 1#0 23.60 22.62 26.01 25.03 132657/1778.5 1 1#5 23.79 22.78 26.20 25.19 131997/1712.5 0 6#0 5#0 21.92 21.66 24.33 24.07 131997/1712.5 0 6#0 5#0 22.86 21.59 25.27 24.00 132322/1745 0 1#0 1#0 23.60 23.68 26.01 26.09 132647/1777.5 0 1#5 1#5 23.77 23.64 26.18 26.05 132622/1715 0 1#0 1#0 23.68 23.66 26.09 26.07	1.4101112	132322/1743	0	6#0	5#0	22.03	21.52	24.44	23.93
0 6#0 5#0 22.10 21.60 24.51 24.01 131987/1711.5 0 1#0 1#0 23.62 22.60 26.03 25.01 3MHz 132322/1745 0 1#0 1#0 23.60 22.62 26.01 25.03 132657/1778.5 0 6#0 5#0 21.78 21.54 24.19 23.95 132657/1778.5 1 1#5 1#5 23.79 22.78 26.02 25.19 131997/1712.5 3 1#0 1#0 23.61 23.67 26.12 26.08 131997/1712.5 0 6#0 5#0 22.86 21.59 25.27 24.00 132322/1745 0 1#0 1#0 23.60 23.68 26.01 26.09 132022/1715 0 1#5 1#5 23.77 23.64 26.18 26.05 132622/1715 0 1#0 1#0 23.63 23.60 26.04 26.05 132622/171		132665/1770 3	0	1#5	1#5	23.72	22.53	26.13	24.94
3MHz 131987/1711.5 0 6#0 5#0 21.84 21.58 24.25 23.99 3MHz 132322/1745 0 1#0 1#0 23.60 22.62 26.01 25.03 132657/1778.5 1 1#5 1#5 23.79 22.78 26.20 25.19 132657/1778.5 0 6#0 5#0 21.92 21.66 24.33 24.07 131997/1712.5 0 6#0 5#0 21.92 21.66 24.33 24.07 131997/1712.5 0 6#0 5#0 22.86 21.59 25.27 24.00 132322/1745 0 1#0 1#0 23.60 23.68 26.01 26.09 132647/1777.5 0 1#5 1#5 23.77 23.64 26.18 26.05 132022/1715 0 1#0 1#0 23.63 23.66 26.09 26.07 10MHz 132322/1745 0 1#0 1#0 23.63 23.60 <td< td=""><td></td><td>132003/1779.3</td><td>0</td><td>6#0</td><td>5#0</td><td>22.10</td><td>21.60</td><td>24.51</td><td>24.01</td></td<>		132003/1779.3	0	6#0	5#0	22.10	21.60	24.51	24.01
3MHz 0 6#0 5#0 21.84 21.58 24.25 23.99 3MHz 132322/1745 0 1#0 1#0 23.60 22.62 26.01 25.03 132657/1778.5 1 1#5 1#5 23.79 22.78 26.20 25.19 132657/1778.5 0 6#0 5#0 21.92 21.66 24.33 24.07 131997/1712.5 0 6#0 5#0 22.86 21.59 25.27 24.00 132322/1745 0 6#0 5#0 22.86 21.59 25.27 24.00 132322/1745 0 1#0 1#0 23.64 26.01 26.09 132647/1777.5 0 1#5 1#5 23.77 23.64 26.01 26.05 132022/1715 0 1#0 1#0 23.63 23.60 26.04 26.01 132622/1775 3 1#0 1#0 23.63 23.60 26.12 26.13 10MHz		121007/1711 5	0	1#0	1#0	23.62	22.60	26.03	25.01
3MHz 132322/1745 0 6#0 5#0 21.78 21.54 24.19 23.95 132657/1778.5 1 1#5 1#5 23.79 22.78 26.20 25.19 132657/1778.5 0 6#0 5#0 21.92 21.66 24.33 24.07 131997/1712.5 3 1#0 1#0 23.71 23.67 26.12 26.08 132322/1745 0 6#0 5#0 22.86 21.74 25.29 24.15 132647/1777.5 0 1#5 1#5 23.77 23.64 26.18 26.05 132647/1777.5 0 1#5 1#5 23.77 23.64 26.18 26.05 132647/1777.5 0 1#5 1#5 23.77 23.64 26.18 26.05 132022/1715 3 1#0 1#0 23.68 23.66 26.09 26.07 132622/1775 4 1#5 1#7 23.64 23.55 26.05 25.99		13190771711.3	0	6#0	5#0	21.84	21.58	24.25	23.99
0 6#0 5#0 21.78 21.54 24.19 23.95 132657/1778.5 1 1#5 1#5 23.79 22.78 26.20 25.19 131997/1712.5 3 1#0 1#0 23.71 23.67 26.12 26.08 131997/1712.5 3 1#0 1#0 23.61 23.67 26.12 26.08 132322/1745 0 6#0 5#0 22.86 21.59 25.27 24.00 132647/1777.5 0 1#5 1#5 23.77 23.64 26.18 26.01 26.09 132647/1777.5 0 1#5 1#5 23.77 23.64 26.18 26.05 25.02 132022/1715 0 4#0 4#0 23.64 22.61 26.05 25.02 132622/1715 0 4#0 4#0 23.67 22.68 25.98 25.09 132622/1775 4 1#5 1#5 23.71 23.72 23.69 26.13 26.10	2₩⊔⇒	120200/1745	0	1#0	1#0	23.60	22.62	26.01	25.03
132657/1778.5 0 6#0 5#0 21.92 21.66 24.33 24.07 131997/1712.5 3 1#0 1#0 23.71 23.67 26.12 26.08 132322/1745 0 6#0 5#0 22.86 21.59 25.27 24.00 132322/1745 0 1#0 1#0 23.60 23.68 26.01 26.09 132647/1777.5 0 1#5 1#5 23.77 23.64 26.18 26.05 132647/1777.5 0 1#5 1#5 23.77 23.64 26.18 26.05 132022/1715 0 1#5 1#5 23.77 23.64 26.01 26.05 25.02 132322/1745 0 1#0 1#0 23.63 23.60 26.04 26.01 132622/1775 4 1#5 1#5 23.72 23.69 26.13 26.10 132622/1775 4 1#5 1#5 23.72 26.12 26.13 13262	SIVITZ	132322/1743	0	6#0	5#0	21.78	21.54	24.19	23.95
0 6#0 5#0 21.92 21.66 24.33 24.07 131997/1712.5 3 1#0 1#0 23.71 23.67 26.12 26.08 5MHz 132322/1745 0 6#0 5#0 22.86 21.59 25.27 24.00 132322/1745 0 1#0 1#0 23.60 23.68 26.01 26.09 132647/1777.5 0 1#5 1#5 23.77 23.64 26.18 26.05 132647/1777.5 0 1#5 1#5 23.77 23.64 26.18 26.05 132022/1715 0 1#5 1#5 23.77 23.64 26.01 26.05 25.02 132022/1715 3 1#0 1#0 23.68 23.66 26.09 26.07 132622/1775 4 1#5 1#5 23.72 23.69 26.13 26.10 132622/1775 4 1#2 4#2 22.98 21.69 25.39 24.10		400057/4770 5	1	1#5	1#5	23.79	22.78	26.20	25.19
5MHz 131997/1712.5 0 6#0 5#0 22.86 21.59 25.27 24.00 132322/1745 0 1#0 1#0 23.60 23.68 26.01 26.09 132647/1777.5 0 6#0 5#0 22.88 21.74 25.29 24.15 132647/1777.5 0 1#5 1#5 23.77 23.64 26.18 26.05 132022/1715 0 6#0 5#0 22.87 21.57 25.28 23.98 132022/1715 0 6#0 4#0 23.64 22.61 26.05 25.02 132322/1745 0 1#0 1#0 23.63 23.60 26.04 26.01 132622/1775 7 4#2 4#2 22.98 21.69 25.39 24.10 132622/1775 7 4#2 4#2 22.98 21.69 25.39 24.10 132047/1717.5 0 6#0 5#0 23.64 23.55 26.05 25.96		13205//1//8.5	0	6#0	5#0	21.92	21.66	24.33	24.07
5MHz 0 6#0 5#0 22.86 21.59 25.27 24.00 132322/1745 0 1#0 1#0 1#0 23.60 23.68 26.01 26.09 132647/1777.5 0 1#5 1#5 23.77 23.64 26.18 26.05 132647/1777.5 0 1#5 1#5 23.77 23.64 26.18 26.05 132022/1715 0 6#0 5#0 22.87 21.57 25.28 23.98 132022/1715 0 6#0 5#0 23.64 26.01 26.07 25.02 132322/1745 0 1#0 1#0 23.63 23.60 26.04 26.01 132622/1775 4 1#5 1#5 23.72 23.69 26.13 26.00 132622/1775 4 1#5 1#5 23.72 23.69 26.13 26.10 132047/1717.5 3 1#0 1#0 23.64 23.55 26.05 25.96		424007/4742 5	3	1#0	1#0	23.71	23.67	26.12	26.08
5MHz 132322/1745 0 6#0 5#0 22.88 21.74 25.29 24.15 132647/1777.5 0 1#5 1#5 23.77 23.64 26.18 26.05 132647/1777.5 0 6#0 5#0 22.87 21.57 25.28 23.98 132022/1715 3 1#0 1#0 23.68 23.66 26.09 26.07 132022/1715 0 4#0 4#0 23.63 23.60 26.04 26.01 132322/1745 0 1#0 1#0 23.63 23.60 26.04 26.01 132622/1775 4 1#5 1#5 23.77 23.69 26.13 26.10 132622/1775 4 1#5 1#5 23.72 23.69 26.13 26.10 132047/1717.5 3 1#0 1#0 23.71 23.72 26.12 26.13 15MHz 132322/1745 0 1#0 1#0 23.62 23.61 26.03 26.0		131997/1712.5	0	6#0	5#0	22.86	21.59	25.27	24.00
0 6#0 5#0 22.88 21.74 25.29 24.15 132647/1777.5 0 1#5 1#5 23.77 23.64 26.18 26.05 132647/1777.5 0 6#0 5#0 22.87 21.57 25.28 23.98 132022/1715 3 1#0 1#0 23.68 23.66 26.09 26.07 132022/1715 0 4#0 4#0 23.63 23.60 26.04 26.01 132322/1745 0 1#0 1#0 23.63 23.60 26.04 26.01 132622/1775 4 1#5 1#5 23.72 23.69 26.13 26.10 132622/1775 4 1#5 1#5 23.72 23.69 26.13 26.10 132047/1717.5 3 1#0 1#0 23.71 23.72 26.12 26.13 15MHz 132322/1745 0 1#0 1#0 23.62 23.61 26.03 26.02 132597/1772.5		40000/4745	0	1#0	1#0	23.60	23.68	26.01	26.09
132647/1777.5 0 6#0 5#0 22.87 21.57 25.28 23.98 132022/1715 3 1#0 1#0 23.68 23.66 26.09 26.07 10MHz 132322/1745 0 4#0 4#0 23.64 22.61 26.05 25.02 132322/1745 0 1#0 1#0 23.63 23.60 26.04 26.01 132322/1745 0 1#0 1#0 23.63 23.60 26.04 26.01 132622/1775 4 1#5 1#5 23.72 23.69 26.13 26.10 132622/1775 4 1#5 1#5 23.72 23.69 26.13 26.10 132047/1717.5 3 1#0 1#0 23.71 23.72 26.12 26.13 15MHz 132322/1745 0 6#0 5#0 23.78 23.61 26.03 26.02 132597/1772.5 8 1#5 1#5 23.75 23.68 26.16 26.	SIMITZ	132322/1745	0	6#0	5#0	22.88	21.74	25.29	24.15
10MHz 0 6#0 5#0 22.87 21.57 25.28 23.98 132022/1715 3 1#0 1#0 23.68 23.66 26.09 26.07 132022/1715 0 4#0 4#0 23.64 22.61 26.05 25.02 132322/1745 0 1#0 1#0 23.63 23.60 26.04 26.01 132622/1775 4 1#5 1#5 23.72 23.69 26.13 26.10 132622/1775 4 1#5 1#5 23.72 23.69 26.13 26.10 132622/1775 4 1#5 1#5 23.72 23.69 26.13 26.10 132047/1717.5 3 1#0 1#0 23.61 26.05 25.96 132322/1745 0 1#0 1#0 23.62 23.61 26.03 26.02 132597/1772.5 8 1#5 1#5 23.75 23.68 26.16 26.09 132072/1720 3		400047/4777 5	0	1#5	1#5	23.77	23.64	26.18	26.05
132022/1715 0 4#0 4#0 23.64 22.61 26.05 25.02 10MHz 132322/1745 0 1#0 1#0 23.63 23.60 26.04 26.01 132322/1745 0 4#0 4#0 23.57 22.68 25.98 25.09 132622/1775 4 1#5 1#5 23.72 23.69 26.13 26.10 132622/1775 4 1#5 1#5 23.72 23.69 26.13 26.10 132622/1775 4 1#5 1#5 23.72 23.69 26.12 26.13 132047/1717.5 3 1#0 1#0 23.62 23.61 26.05 25.96 132322/1745 0 1#0 1#0 23.62 23.61 26.03 26.02 132597/1772.5 8 1#5 1#5 23.75 23.68 26.16 26.09 132072/1720 3 1#0 1#0 23.62 23.58 26.03 25.99 <tr< td=""><td></td><td>13264//1///.5</td><td>0</td><td>6#0</td><td>5#0</td><td>22.87</td><td>21.57</td><td>25.28</td><td>23.98</td></tr<>		13264//1///.5	0	6#0	5#0	22.87	21.57	25.28	23.98
10MHz 0 4#0 4#0 23.64 22.61 26.05 25.02 132322/1745 0 1#0 1#0 23.63 23.60 26.04 26.01 132322/1745 0 4#0 4#0 23.57 22.68 25.98 25.09 132622/1775 4 1#5 1#5 23.72 23.69 26.13 26.10 132622/1775 4 1#5 1#5 23.72 23.69 26.13 26.10 132622/1775 4 1#2 4#2 22.98 21.69 25.39 24.10 132047/1717.5 3 1#0 1#0 23.71 23.72 26.12 26.13 15MHz 132322/1745 0 1#0 1#0 23.62 23.61 26.03 26.02 132597/1772.5 8 1#5 1#5 23.75 23.68 26.16 26.09 132597/1772.5 8 1#5 1#5 23.73 23.74 26.14 26.15		400000/4745	3	1#0	1#0	23.68	23.66	26.09	26.07
10MHz 132322/1745 0 4#0 4#0 23.57 22.68 25.98 25.09 132622/1775 4 1#5 1#5 23.72 23.69 26.13 26.10 132622/1775 7 4#2 4#2 22.98 21.69 25.39 24.10 132047/1717.5 3 1#0 1#0 23.71 23.72 26.12 26.13 15MHz 132047/1717.5 0 6#0 5#0 23.64 23.55 26.05 25.96 132322/1745 0 1#0 1#0 23.62 23.61 26.03 26.02 132597/1772.5 0 1#0 1#0 23.75 23.68 26.16 26.09 132597/1772.5 8 1#5 1#5 23.75 23.68 26.16 26.09 132072/1720 3 1#0 1#0 23.67 23.51 26.04 26.15 20MHz 132322/1745 0 6#0 5#0 23.62 23.58 2		132022/1715	0	4#0	4#0	23.64	22.61	26.05	25.02
0 4#0 4#0 23.57 22.68 25.98 25.09 132622/1775 4 1#5 1#5 23.72 23.69 26.13 26.10 7 4#2 4#2 22.98 21.69 25.39 24.10 132047/1717.5 3 1#0 1#0 23.71 23.72 26.12 26.13 15MHz 132047/1717.5 3 1#0 1#0 23.64 23.55 26.05 25.96 132322/1745 0 1#0 1#0 23.62 23.61 26.03 26.02 132597/1772.5 0 1#0 1#0 23.75 23.68 26.16 26.09 132597/1772.5 8 1#5 1#5 23.75 23.68 26.16 26.09 132072/1720 3 1#0 1#0 23.73 23.74 26.14 26.15 20MHz 132322/1745 0 6#0 5#0 23.63 23.62 26.04 26.03 132572/1770	401411	400000/4745	0	1#0	1#0	23.63	23.60	26.04	26.01
132622/17/5 7 4#2 4#2 22.98 21.69 25.39 24.10 132047/1717.5 3 1#0 1#0 23.71 23.72 26.12 26.13 132047/1717.5 0 6#0 5#0 23.64 23.55 26.05 25.96 132322/1745 0 1#0 1#0 23.62 23.61 26.03 26.02 132322/1745 0 1#0 1#0 23.62 23.61 26.03 26.02 132597/1772.5 8 1#5 1#5 23.75 23.68 26.16 26.09 132597/1772.5 8 1#5 1#5 23.75 23.68 26.16 26.09 132072/1720 3 1#0 1#0 23.63 23.62 26.03 25.99 20MHz 132322/1745 0 1#0 1#0 23.63 23.62 26.04 26.03 132572/1770 12 1#5 1#5 23.73 23.67 26.14 26.08	10MHZ	132322/1745	0	4#0	4#0	23.57	22.68	25.98	25.09
15MHz 132047/1717.5 3 1#0 1#0 23.71 23.72 26.12 26.13 15MHz 132322/1745 0 6#0 5#0 23.64 23.55 26.05 25.96 132322/1745 0 1#0 1#0 23.62 23.61 26.03 26.02 132597/1772.5 0 1#0 1#0 23.62 23.61 26.03 26.02 132597/1772.5 8 1#5 1#5 23.75 23.68 26.16 26.09 132597/1772.5 8 1#5 1#5 23.75 23.68 26.16 26.09 132072/1720 3 1#0 1#0 23.73 23.74 26.14 26.15 132072/1720 3 1#0 1#0 23.62 23.58 26.03 25.99 20MHz 132322/1745 0 1#0 1#0 23.63 23.62 26.04 26.03 132572/1770 12 1#5 1#5 23.73 23.67		400000/4775	4	1#5	1#5	23.72	23.69	26.13	26.10
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		132622/1775	7	4#2	4#2	22.98	21.69	25.39	24.10
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		400047/4747 5	3	1#0	1#0	23.71	23.72	26.12	26.13
15MHz 132322/1745 0 6#0 5#0 23.78 23.54 26.19 25.95 132597/1772.5 8 1#5 1#5 23.75 23.68 26.16 26.09 132597/1772.5 11 6#0 5#0 23.73 23.51 26.08 25.92 132072/1720 3 1#0 1#0 23.73 23.74 26.14 26.15 132072/1720 3 1#0 1#0 23.62 23.58 26.03 25.99 20MHz 132322/1745 0 1#0 1#0 23.63 23.62 26.04 26.03 132572/1770 0 1#0 1#0 23.63 23.62 26.04 26.03 132572/1770 12 1#5 1#5 23.73 23.67 26.14 26.08		132047/1717.5	0	6#0	5#0	23.64	23.55	26.05	25.96
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	4 5 4 4	400000/4745	0	1#0	1#0	23.62	23.61	26.03	26.02
132597/1772.5 11 6#0 5#0 23.67 23.51 26.08 25.92 132072/1720 3 1#0 1#0 23.73 23.74 26.14 26.15 132072/1720 0 6#0 5#0 23.62 23.58 26.03 25.99 20MHz 132322/1745 0 1#0 1#0 23.63 23.62 26.04 26.03 132572/1770 12 1#5 1#5 23.73 23.67 26.14 26.03	15MHz	132322/1745	0	6#0	5#0	23.78	23.54	26.19	25.95
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		400507/4770 5	8	1#5	1#5	23.75	23.68	26.16	26.09
132072/1720 0 6#0 5#0 23.62 23.58 26.03 25.99 20MHz 132322/1745 0 1#0 1#0 23.63 23.62 26.04 26.03 132322/1745 0 6#0 5#0 23.79 23.52 26.04 26.03 132572/1770 12 1#5 1#5 23.73 23.67 26.14 26.08		132597/1772.5	11	6#0	5#0	23.67	23.51	26.08	25.92
20MHz 0 6#0 5#0 23.62 23.58 26.03 25.99 132322/1745 0 1#0 1#0 23.63 23.62 26.04 26.03 132322/1745 0 6#0 5#0 23.79 23.52 26.20 25.93 132572/1770 12 1#5 1#5 23.73 23.67 26.14 26.08		1000-0/1-00	3	1#0	1#0	23.73	23.74	26.14	26.15
20MHz 132322/1745 0 6#0 5#0 23.79 23.52 26.20 25.93 132572/1770 12 1#5 1#5 23.73 23.67 26.14 26.08		132072/1720	0	6#0	5#0	23.62	23.58	26.03	25.99
0 6#0 5#0 23.79 23.52 26.20 25.93 132572/1770 12 1#5 1#5 23.73 23.67 26.14 26.08		400000/17/7	0	1#0	1#0	23.63	23.62	26.04	26.03
132572/1770 12 1#5 1#5 23.73 23.67 26.14 26.08	20MHz	132322/1745	0	6#0	5#0	23.79	23.52	26.20	25.93
		100 000 0//	12						
15 6#0 5#0 23.63 23.49 26.04 25.90		132572/1770	15	6#0	5#0	23.63	23.49	26.04	25.90

TA Technology (Shanghai) Co., Ltd.TA-MB-05-003RPage 16This report shall not be reproduced except in full, without the written approval of TA Technology (Shanghai) Co., Ltd. Page 16 of 25



6.2 Radiated Spurious Emission

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions below the noise floor will not be recorded in the report.

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)		
2	3464.25	-39.58	2.70	12.70	Horizontal	-29.58	-13.00	16.58	90		
3	5197.50	-54.71	3.20	12.50	Horizontal	-45.41	-13.00	32.41	16		
4	6930.00	-59.65	4.20	11.80	Horizontal	-52.05	-13.00	39.05	179		
5	8662.50	-54.99	4.40	12.50	Horizontal	-46.89	-13.00	33.89	30		
6	10395.00	-52.20	4.70	11.30	Horizontal	-45.60	-13.00	32.60	186		
7	12127.50	-53.92	5.20	13.80	Horizontal	-45.32	-13.00	32.32	23		
8	13860.00	-50.23	5.70	11.30	Horizontal	-44.63	-13.00	31.63	294		
9	15592.50	-58.78	6.10	16.80	Horizontal	-48.08	-13.00	35.08	90		
10	17325.00	-52.32	6.10	14.20	Horizontal	-44.22	-13.00	31.22	133		
	Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Horizontal position.										

LTE-M Band 4 QPSK 1.4MHz CH-Middle, RB 1

LTE Band 4 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)			
2	3460.50	-40.97	2.70	12.70	Horizontal	-30.97	-13.00	17.97	236			
3	5191.50	-51.23	3.20	12.50	Horizontal	-41.93	-13.00	28.93	13			
4	6930.00	-58.13	4.20	11.80	Horizontal	-50.53	-13.00	37.53	286			
5	8662.50	-53.84	4.40	12.50	Horizontal	-45.74	-13.00	32.74	0			
6	10380.00	-51.65	4.70	11.30	Horizontal	-45.05	-13.00	32.05	9			
7	12110.00	-55.67	5.20	13.80	Horizontal	-47.07	-13.00	34.07	48			
8	13840.00	-48.89	5.70	11.30	Horizontal	-43.29	-13.00	30.29	31			
9	15570.00	-58.99	6.10	16.80	Horizontal	-48.29	-13.00	35.29	90			
10	17300.00	-54.11	6.10	14.20	Horizontal	-46.01	-13.00	33.01	135			
	Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Horizontal position.											



Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)			
2	3447.75	-37.42	2.70	12.70	Horizontal	-27.42	-13.00	14.42	23			
3	5170.88	-47.82	3.20	12.50	Horizontal	-38.52	-13.00	25.52	0			
4	6930.00	-56.89	4.20	11.80	Horizontal	-49.29	-13.00	36.29	90			
5	8662.50	-55.00	4.40	12.50	Horizontal	-46.90	-13.00	33.90	186			
6	10395.00	-51.77	4.70	11.30	Horizontal	-45.17	-13.00	32.17	276			
7	12127.50	-54.78	5.20	13.80	Horizontal	-46.18	-13.00	33.18	3			
8	13860.00	-47.73	5.70	11.30	Horizontal	-42.13	-13.00	29.13	90			
9	15592.50	-59.28	6.10	16.80	Horizontal	-48.58	-13.00	35.58	254			
10	17325.00	-52.89	6.10	14.20	Horizontal	-44.79	-13.00	31.79	183			
	Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Horizontal position.											

LTE-M Band 4 QPSK 20MHz CH-Middle, RB 1

LTE-M Band 12 QPSK 1.4MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)			
2	1413.60	-40.25	1.70	8.70	Horizontal	-35.40	-13.00	22.40	206			
3	2120.40	-40.84	2.10	11.10	Horizontal	-33.99	-13.00	20.99	315			
4	2827.20	-55.65	2.30	13.10	Horizontal	-47.00	-13.00	34.00	315			
5	3537.50	-60.12	2.60	12.70	Horizontal	-52.17	-13.00	39.17	304			
6	4245.00	-56.93	3.30	12.50	Horizontal	-49.88	-13.00	36.88	27			
7	4952.50	-59.00	3.40	12.50	Horizontal	-52.05	-13.00	39.05	97			
8	5660.00	-53.84	3.30	12.50	Horizontal	-46.79	-13.00	33.79	226			
9	6367.50	-58.32	3.80	11.50	Horizontal	-52.77	-13.00	39.77	30			
10	7075.00	-55.69	4.20	11.80	Horizontal	-50.24	-13.00	37.24	183			
Note: 1.The	Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.											
2. T	he worst emis	ssion was	s found ir	n the ante	enna is Horizon	tal positio	on.					

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)			
2	1410.60	-40.85	1.70	8.70	Horizontal	-36.00	-13.00	23.00	276			
3	2115.90	-42.07	2.10	11.10	Horizontal	-35.22	-13.00	22.22	90			
4	2820.00	-51.33	2.30	13.10	Horizontal	-42.68	-13.00	29.68	133			
5	3525.00	-58.85	2.60	12.70	Horizontal	-50.90	-13.00	37.90	9			
6	4230.00	-53.94	3.30	12.50	Horizontal	-46.89	-13.00	33.89	48			
7	4935.00	-58.96	3.40	12.50	Horizontal	-52.01	-13.00	39.01	133			
8	5640.00	-52.66	3.30	12.50	Horizontal	-45.61	-13.00	32.61	90			
9	6345.00	-58.91	3.80	11.50	Horizontal	-53.36	-13.00	40.36	304			
10	7050.00	-56.61	4.20	11.80	Horizontal	-51.16	-13.00	38.16	186			
	Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Horizontal position.											

LTE-M Band 12 QPSK 5MHz CH-Middle, RB 1

LTE-M Band 12 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)			
2	1405.00	-38.87	1.70	8.70	Horizontal	-34.02	-13.00	21.02	63			
3	2107.50	-39.69	2.10	11.10	Horizontal	-32.84	-13.00	19.84	110			
4	2810.00	-50.77	2.30	13.10	Horizontal	-42.12	-13.00	29.12	63			
5	3512.50	-52.02	2.60	12.70	Horizontal	-44.07	-13.00	31.07	93			
6	4215.00	-57.32	3.30	12.50	Horizontal	-50.27	-13.00	37.27	6			
7	4917.50	-60.17	3.40	12.50	Horizontal	-53.22	-13.00	40.22	30			
8	5620.00	-53.30	3.30	12.50	Horizontal	-46.25	-13.00	33.25	187			
9	6322.50	-57.54	3.80	11.50	Horizontal	-51.99	-13.00	38.99	256			
10	7025.00	-54.68	4.20	11.80	Horizontal	-49.23	-13.00	36.23	67			
	Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Horizontal position.											



LTE-M Band 13 QPSK 5MHz CH-Middle, RB 1

Report No.: R2306A0684-R6

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)			
2	1559.85	-57.50	1.70	8.70	Horizontal	-50.50	-40.00	10.50	39			
Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)			
3	2339.40	-48.58	2.10	12.00	Horizontal	-40.83	-13.00	27.83	306			
4	3118.00	-58.19	2.30	13.10	Horizontal	-49.54	-13.00	36.54	99			
5	3897.50	-56.25	2.90	12.50	Horizontal	-48.80	-13.00	35.80	46			
6	4677.00	-60.73	3.10	12.50	Horizontal	-53.48	-13.00	40.48	176			
7	5456.50	-59.50	3.30	12.50	Horizontal	-52.45	-13.00	39.45	301			
8	6236.00	-51.74	3.50	12.80	Horizontal	-44.59	-13.00	31.59	90			
9	7015.50	-55.38	4.20	11.80	Horizontal	-49.93	-13.00	36.93	225			
10	7795.00	-54.43	4.40	12.30	Horizontal	-48.68	-13.00	35.68	17			
	Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Horizontal position.											

LTE-M Band 13 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1576.00	-80.93	1.70	8.70	Horizontal	-73.93	-40.00	33.93	315
Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
3	2333.32	-53.15	2.10	12.00	Horizontal	-45.40	-13.00	32.40	195
4	3108.00	-57.56	2.30	13.10	Horizontal	-48.91	-13.00	35.91	315
5	3885.00	-57.14	2.90	12.50	Horizontal	-49.69	-13.00	36.69	90
6	4662.00	-62.38	3.10	12.50	Horizontal	-55.13	-13.00	42.13	247
7	5439.00	-60.16	3.30	12.50	Horizontal	-53.11	-13.00	40.11	47
8	6216.00	-50.62	3.50	12.80	Horizontal	-43.47	-13.00	30.47	315
9	6993.00	-56.73	4.20	11.80	Horizontal	-51.28	-13.00	38.28	90
10	7770.00	-55.11	4.40	12.30	Horizontal	-49.36	-13.00	36.36	14
Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Horizontal position.									

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)	
2	3488.90	-57.37	2.70	12.70	Horizontal	-47.37	-13.00	34.37	112	
3	5262.50	-62.75	3.20	12.50	Horizontal	-53.45	-13.00	40.45	46	
4	7018.00	-59.15	4.20	11.80	Horizontal	-51.55	-13.00	38.55	305	
5	8772.50	-56.32	4.40	12.50	Horizontal	-48.22	-13.00	35.22	2	
6	10527.00	-52.06	4.70	11.80	Horizontal	-44.96	-13.00	31.96	27	
7	12281.50	-57.73	5.20	13.80	Horizontal	-49.13	-13.00	36.13	136	
8	14036.00	-53.36	5.70	13.20	Horizontal	-45.86	-13.00	32.86	125	
9	15790.50	-60.55	6.10	16.80	Horizontal	-49.85	-13.00	36.85	311	
10	17545.00	-52.11	6.10	14.20	Horizontal	-44.01	-13.00	31.01	14	
	Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Horizontal position.									

LTE-M Band 66 QPSK 1.4MHz CH-Middle, RB 1

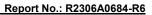
LTE-M Band 66 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)	
2	3486.00	-57.50	2.70	12.70	Horizontal	-47.50	-13.00	34.50	228	
3	5229.00	-61.35	3.20	12.50	Horizontal	-52.05	-13.00	39.05	31	
4	6972.00	-58.46	4.20	11.80	Horizontal	-50.86	-13.00	37.86	96	
5	8715.00	-55.34	4.40	12.50	Horizontal	-47.24	-13.00	34.24	0	
6	10458.00	-51.41	4.70	11.80	Horizontal	-44.31	-13.00	31.31	45	
7	12201.00	-54.47	5.20	13.80	Horizontal	-45.87	-13.00	32.87	315	
8	13944.00	-51.74	5.70	13.20	Horizontal	-44.24	-13.00	31.24	90	
9	15687.00	-58.64	6.10	16.80	Horizontal	-47.94	-13.00	34.94	225	
10	17430.00	-52.69	6.10	14.20	Horizontal	-44.59	-13.00	31.59	186	
	Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Horizontal position.									



Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)	
2	3472.88	-56.23	2.70	12.70	Horizontal	-46.23	-13.00	33.23	116	
3	5209.00	-61.87	3.20	12.50	Horizontal	-52.57	-13.00	39.57	115	
4	6945.75	-58.74	4.20	11.80	Horizontal	-51.14	-13.00	38.14	45	
5	8682.00	-56.22	4.40	12.50	Horizontal	-48.12	-13.00	35.12	270	
6	10418.63	-52.43	4.70	11.80	Horizontal	-45.33	-13.00	32.33	306	
7	12455.00	-56.46	5.20	13.80	Horizontal	-47.86	-13.00	34.86	5	
8	13891.50	-52.54	5.70	13.20	Horizontal	-45.04	-13.00	32.04	12	
9	15627.00	-59.68	6.10	16.80	Horizontal	-48.98	-13.00	35.98	311	
10	17364.38	-53.42	6.10	14.20	Horizontal	-45.32	-13.00	32.32	15	
	Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Horizontal position.									

LTE-M Band 66 QPSK 20MHz CH-Middle, RB 1



7 Main Test Instruments

Name	Manufacturer	Туре	Serial Number	Calibration Date	Expiration Date	
Signal Analyzer	R&S	FSV30	100815	2022-12-10	2023-12-09	
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2023-04-16	2026-04-15	
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	391	2022-09-29	2025-09-28	
Horn Antenna	Schwarzbeck	BBHA 9120D	1594	2020-12-17	2023-12-16	
Horn Antenna	ETS-Lindgren	3160-09	00102643	2021-10-10	2024-10-09	
Software	R&S	EMC32	10.35.10	/	/	



ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.



ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.

****** END OF REPORT ******