



TEST REPORT FOR WCDMA TESTING

Report No.: SRTC2024-9004(F)-24072501(B)

Product Name: Edge Router

Product Model: ER605-FF39

Brand Name: inhand

Applicant: Beijing InHand Networks Technology Co., Ltd.

Manufacturer: Beijing InHand Networks Technology Co., Ltd.

Specification: FCC Part 24E, Part 22H, Part 27, Part 2 (2023)

FCC ID: 2AANY-ER605FF39

The State Radio_monitoring_center Testing Center (SRTC)

15th Building, No.30 Shixing Street, Shijingshan District, Beijing, P.R.China

Tel: 86-10-57996183 Fax: 86-10-57996388



CONTENTS

1. GENERAL INFORMATION	2
2 DESCRIPTION OF THE DEVICE UNDER TEST	
3 REFERENCE SPECIFICATION	5
4 KEY TO NOTES AND RESULT CODES	5
5 RESULT SUMMARY	6
6 TEST RESULT	8
6.1 RF Power Output	8
6.2 Effective Radiated Power and Effective Isotropic Radiated Power	9
6.3 Occupied Bandwidth	10
6.4 Emission Bandwidth	
6.5 Spurious Emissions at antenna terminal	12
6.6 Band Edges Compliance	13
6.7 Frequency Stability	
6.8 Radiated Spurious Emissions	15
6.9 Peak-Average Ratio	17
7 MEASUREMENT UNCERTAINTIES	18
8 TEST EQUIPMENTS	19
APPENDIX A – TEST DATA OF CONDUCTED EMISSION	20
APPENDIX B – TEST DATA OF RADIATED EMISSION	21



1. GENERAL INFORMATION

1.1 Notes of the test report

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The certification and accreditation identifiers used in this report shall not be applicable to the tested or calibrated samples thereof. The manufacturer shall not mark the tested samples or items (or a separate part of the item) with the identifiers of certification and accreditation to mislead relevant parties about the tested samples or items.

1.2 Information about the testing laboratory

Company:	The State Radio_monitoring_center Testing Center (SRTC)
Test Site 1:	15th Building, No.30 Shixing Street, Shijingshan District
Test Site 2:	No.80, Zhaojiachang, Beizang, Daxing District
City:	Beijing
Country or Region:	P.R.China
Contacted person:	Liu Jia
Tel:	+86 10 57996183
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Email:	liujiaf@srtc.org.cn
Designation Number:	CN1267
Registration number:	239125

1.3 Applicant's details

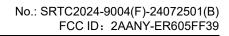
Company:	Beijing InHand Networks Technology Co., Ltd.	
Address:	Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang	
Address.	district, Beijing	
City:	Beijing	
Country or Region:	China	
Contacted person:	GuJichi	
Tel:	15281366255	
Email:	gujc@inhand.com.cn	

1.4 Manufacturer's details

Company:	Beijing InHand Networks Technology Co., Ltd.	
Address:	Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang	
Address.	district, Beijing	
City:	Beijing	
Country or Region:	China	
Contacted person:	GuJichi	
Tel:	15281366255	
Email:	gujc@inhand.com.cn	

The State Radio_monitoring_center Testing Center (SRTC)

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Page number: 3 of 21



The State Radio_monitoring_center Testing Center (SRTC)
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1.5 Test Environment

Date of Receipt of test sample at SRTC:	2024/7/30
Testing Start Date:	2024/7/31
Testing End Date:	2024/8/16

Environmental Data:	Temperature (°C)	Humidity (%)	
Ambient	25	40	
Maximum Extreme	50		
Minimum Extreme	-20		

Normal Supply Voltage (V d.c.):	12V
Maximum Extreme Supply Voltage (V d.c.):	15V
Minimum Extreme Supply Voltage (V d.c.):	9V

2. DESCRIPTION OF THE DEVICE UNDER TEST

2.1Final Equipment Build Status

Frequency Range:	WCDMA Band II: Tx:1850~1910MHz Rx:1930~1990MHz WCDMA Band IV: Tx: 1710~1755MHz Rx: 2110~2155MHz WCDMA Band V: Tx: 824~849MHz Rx: 869~894MHz
Mode:	HSDPA/HSUPA
Duplex Mode:	FDD
Duplex Spacing:	WCDMA Band II: 80MHz WCDMA Band IV: 400MHz WCDMA Band V: 45MHz
Antenna Type:	Sucker antenna
Antenna Gain:	WCDMA Band II: Ant1: 2.63dBi WCDMA Band IV: Ant1: 2.86dBi WCDMA Band V: Ant1: 1.61dBi ERP = EIRP(Power +Gain) – 2.15 (dB)
Power Supply:	DC supply
Software Revision:	V2.0
Hardware Revision: V2.0	
SN/IMEI:	CF9542417000019/863890053818654

2.2 Support Equipment

The following support equipment was used to exercise the DUT during testing: N/A

No.: SRTC2024-9004(F)-24072501(B) FCC ID: 2AANY-ER605FF39

Note: This product uses the module model FM101-NA and supports WCDMA frequency bands 2/4/5/. Therefore, for this product, we referred to the FM101-NA test report and evaluated the frequency spectrum of the radiated spurious emissions.

For module FM101-NA: Report No.: 2110RSU053-U6 FCC ID: ZMOFM101NA

3. REFERENCE SPECIFICATION

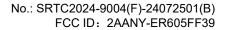
Specification	Version	Title
FCC Part2	2023	Frequency allocations and radio treaty matters; general rules and regulations
FCC Part22	2023	Public mobile services
FCC Part24	2023	Personal communications services
FCC Part27	2023	Miscellaneous wireless communications services
ANSI C63.26	2015	American national standard for compliance testing of transmitters used in licensed radio services
KDB 971168	April 9,	Measurement guidance for certification of licensed digital
D01	2018	transmitters
TIA-603-E-2016	March 2016	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards

4. KEY TO NOTES AND RESULT CODES

The following are the definition of the test result.

Code	Meaning	
PASS	Test result shows that the requirements of the relevant specification have been met.	
FAIL	Test result shows that the requirements of the relevant specification have not been met.	
NT	Normal Temperature	
NV	Nominal voltage	
HV	High voltage	
LV	Low voltage	

Page number: 5 of 21 Tel: 86-10-57996183 Fax: 86-10-57996388 V3.0.0





5. RESULT SUMMARY

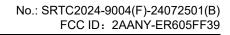
No.	Test case	FCC reference	Verdict	Test
				Site
1	RF Power Output	2.1046	Pass	1
	Effective Radiated Power			
2	and	22.913(a),24.232(c),27.50(d)(4)	Pass	1
_	Effective Isotropic Radiated	22.310(a),24.202(0),21.00(a)(4)	1 455	'
	Power			
3	Occupied Bandwidth	2.1049	Pass	1
4	Emission Bandwidth	2.1049	Pass	1
5	Spurious Emissions at antenna terminal	2.1051,22.917(a),24.238(a),27.53(h)	Pass	1
6	Band Edges Compliance	2.1051,22.917(a),24.238(b),27.53(h)	Pass	1
7	Frequency Stability	2.1055,22.355,24.235,27.54	Pass	1
8	Peak-Average Ratio	24.232(d),27.50(d)(5)	Pass	1

Test Site 1: 15th Building, No.30 Shixing Street, Shijingshan District

This Test Mr. Peng	Report Is Approved by: Zhen	Review by: Mr. Li Bin
	nd Issued by:	Approved date:
Mr. Liang	g Xisheng	
	大种子 木种子	20240816

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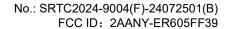


No.	Test case	FCC reference	Verdict	Test Site
9	Radiated Spurious Emissions	2.1053,22.917(a),24.238(a),27.53(h)	Pass	2

Test Site 2: No.80, Zhaojiachang, Beizang, Daxing District

This Test Report Is Approved by: Mr. Liu Wei	Review by: Mr. Guo Yu
Tested and Issued by: Mr. Dong Qifeng	Approved date:
董奇绎	20240816

The State Radio_monitoring_center Testing Center (SRTC)
Tel: 86-10-57996183



Page number: 8 of 21

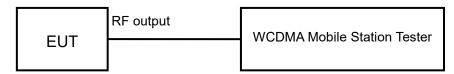


6. TEST RESULT

6.1 RF Power Output

Rule Part(s): 2.1046

Test Setup:



Test procedure:

After a radio link has been established between EUT and Tester, the output power of the cell signal of the testing equipment will be decreased until the output power of the EUT reach a maximum value. Then the test data can be read at the tester screen. The loss between RF output port of the EUT and the input port of the tester will be taken into consideration.

The measurement will be conducted at three channels (Low, middle and High channels).

Limits: Limits: No specific conduct power requirements in part 2.1046.

Test result:

The test results are shown in Appendix A.

No.: SRTC2024-9004(F)-24072501(B) FCC ID: 2AANY-ER605FF39

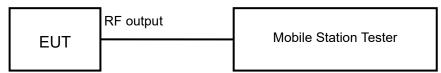
Page number: 9 of 21

6.2 Effective Radiated Power and Effective Isotropic Radiated Power

Rule Part(s):

FCC: 22.913(a) (5), 24.232(c), 27.50(d) (4)

Test setup:



Test procedure:

KDB 971168 D01 v03r01 - Section 5.6

Test Settings

Subclause 5.2.5.5 of ANSI C63.26-2015 is applicable, along with the following provisions. For personal/portable radios utilizing an integral antenna, the factor LC is typically negligible. However, in a fixed station transmit system that utilizes a long cable run between the transmitter and the transmitting antenna, this factor can be significant. The minimum cable loss should be used in this equation.

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured is:

ERP/EIRP = PMeas - LC + GT

Where:

ERP/EIRP = effective or equivalen radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm)

PMeas = measured transmitter output power or PSD, in dBW or dBm

LC = signal attenuation in the connecting cable between the transmitter and antenna in dB GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

ERP/EIRP LIMIT

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

22.913(a) (5)

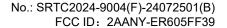
The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts. 24.232(c)

Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications. 27.50(d) (4)

Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP. Fixed stations operating in the 1710-1755 MHz band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications

Test result:

The test results are shown in Appendix A.

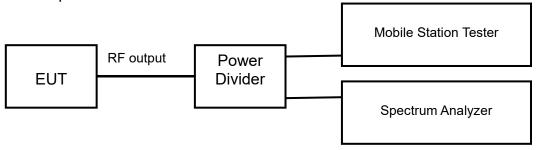




6.3 Occupied Bandwidth

Rule Part(s): FCC: 2.1049

Test Setup:



Test procedure:

KDB 971168 D01 v03r01 - Section 4.2

Test Settings

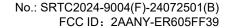
- 1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. RBW = 1 5% of the expected OBW
- 3. VBW \geq 3 x RBW
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple
- 7. The trace was allowed to stabilize
- 8. If necessary, steps 2 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

Limits: No specific occupied bandwidth requirements in part 2.1049

Test result:

The test results are shown in Appendix A.

Page number: 10 of 21 Tel: 86-10-57996183 Fax: 86-10-57996388 V3.0.0



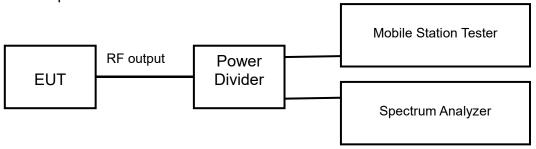
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6.4 Emission Bandwidth

Rule Part(s): FCC: 2.1049

Test Setup:



Test procedure:

KDB 971168 D01 v03r01 - Section 4.2

Test Settings

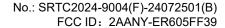
- 1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 26dB occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. RBW = 1 5% of the expected OBW
- 3. VBW \geq 3 x RBW
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple
- 7. The trace was allowed to stabilize
- 8. If necessary, steps 2-7 were repeated after changing the RBW such that it would be within 1-5% of the emission bandwidth observed in Step 7

Limits: No specific occupied bandwidth requirements in part 2.1049

Test result:

The test results are shown in Appendix A.

Tel: 86-10-57996183 Fax: 86-10-57996388



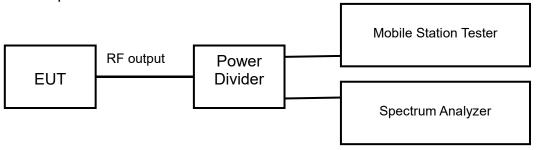


6.5 Spurious Emissions at antenna terminal

Rule Part(s):

FCC: 2.1051, 22.917(a), 24.238(a), 27.53(h)

Test Setup:



Test procedure:

KDB 971168 D01 v03r01 - Section 6.0

Test Settings

- 1. Start frequency was set to 30MHz and stop frequency was set to 10GHz for Cell, 20GHz for PCS
- 2. RBW=100 kHz (For below 1GHz), 1MHz (For above 1GHz)
- 3. VBW \geq 3 x RBW
- 4. Detector = RMS
- 5. Trace mode = trace average for continuous emissions, max hold for pulse emissions
- 6. Sweep time = auto couple
- 7. The trace was allowed to stabilize

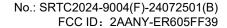
Limits:

The minimum permissible attenuation level of any spurious emission is 43+log 10(P [Watts]), where P is the transmitter power in Watts.

Test result:

The test results are shown in Appendix A.

Page number: 12 of 21 Tel: 86-10-57996183 Fax: 86-10-57996388 V3.0.0



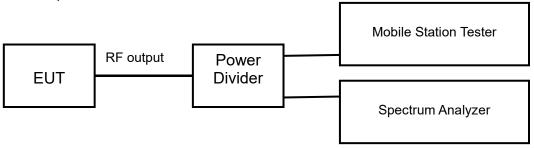


6.6 Band Edges Compliance

Rule Part(s)

FCC: 2.1051, 22.917(a), 24.238(a), 27.53(c)

Test Setup:



Test procedure:

KDB 971168 D01 v03r01 - Section 6.0

Test Settings

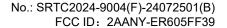
- 1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
- 2. Span=2MHz
- 3. RBW > 1% of the emission bandwidth
- 4. $VBW > 3 \times RBW$
- 5. Detector = RMS
- 6. Number of sweep points ≥ 2 x Span/RBW
- 7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
- 8. Sweep time = auto couple
- 9. The trace was allowed to stabilize

Limit: The minimum permissible attenuation level of any spurious emission is 43+log₁₀ (P [Watts]), where P is the transmitter power in Watts.

Test result:

The test results are shown in Appendix A.

Page number: 13 of 21 Tel: 86-10-57996183 Fax: 86-10-57996388 V3.0.0



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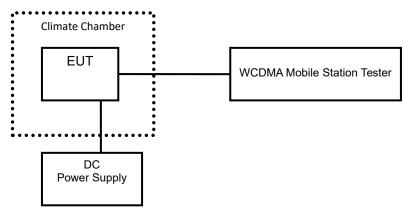


6.7 Frequency Stability

Rule Part(s)

FCC: 2.1055, 22.355, 24.235, 27.54

Test setup:



Test Procedure: ANSI/TIA-603-E-2016

Test Settings

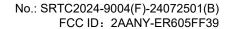
- 1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- 2. The equipment is turned on in a "standby" condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
- 3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C (The temperature range can be declared by the manufacturer). A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Limits: For Part 22, the frequency stability of the transmitter shall be maintained within±0.00125% (±2.5 ppm) of the center frequency. For Part 24, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test result:

The test results are shown in Appendix A.

Tel: 86-10-57996183 Fax: 86-10-57996388



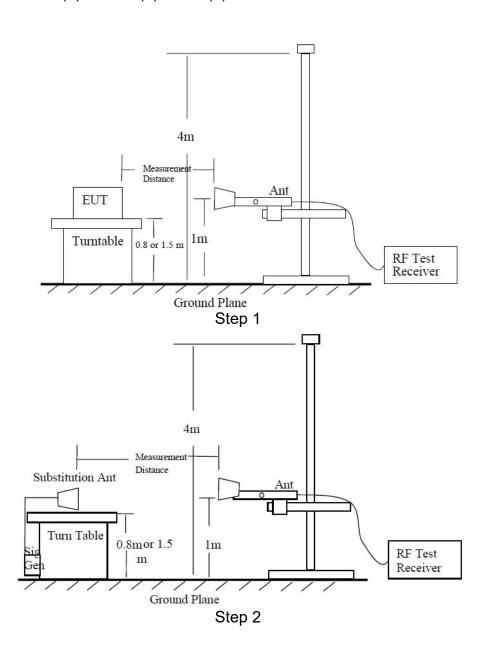


6.8 Radiated Spurious Emissions

Rule Part(s)

FCC: 2.1053, 22.917(a), 24.238(a), 27.53(h)

Test Setup:



Test procedure:

The measurements procedures in TIA-603-E-2016 are used.

The spectrum was scanned from 30MHz to the 10th harmonic of the highest frequency generated within the equipment.

Step 1:

The measurement is carried out in the chamber. EUT was placed on a 0.8m (f<1GHz)/ 1.5m (f>1GHz) high non-conductive table at a 3 meters test distance from the test receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT. The

The State Radio_monitoring_center Testing Center (SRTC)

Tel: 86-10-57996183

Fax: 86-10-57996388 V3.0.0



No.: SRTC2024-9004(F)-24072501(B) FCC ID: 2AANY-ER605FF39

V3.0.0

height of receiving antenna from 1m to 4m and varies in certain range to find the maximum power value. A radio link shall be established between EUT and Tester. The output power of the cell signal of the tester will be decreased until the output power of the EUT reach a maximum value. A peak detector is used and RBW is set to 100 kHz (f<1GHz)/1MHz (f>1GHz). The antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees for detecting the maximum power value on spectrum analyzer or receiver. The spectrum analyzer scans from 30MHz to 10th harmonic of the carrier. A notch filter is necessary in the band near to the carrier frequency. A high pass filter is needed to avoid the distortion of the testing equipment in the band above the carrier frequency.

Step 2:

A log-periodic antenna or double-ridged waveguide 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.

A power (Pmea) is applied to the input of the substitution antenna, and adjusts 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.

A "reference path loss" should be calculated after test. The attenuation of "reference path loss" is the cable loss between the Signal Source with the Substitution Antenna (Pca) and the Substitution Antenna Gain (Ga).

Calculation procedure:

The data of cable loss and antenna gain has been calibrated in full testing frequency range before the testing.

The power of the Radiated Spurious Emissions is calculated by adding the cable loss and antenna gain. The basic equation with a sample calculation is as followed:

Power (EIRP) = Pmea+ Pca + Ga

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

Assumed the power of signal source record is -20dBm. A cable loss of -30dB, and an antenna gain of 11dB are added.

P=Pmea+Pca+Ga=(-20dBm)+(-30dB)+(11dB)= -39dBm

Note: We tested both horizontal and vertical polarization, but only the largest numerical polarity of the two polarities was recorded in the final report.

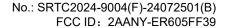
Test result:

The test results are shown in Appendix B.

The State Radio_monitoring_center Testing Center (SRTC)

Tel: 86-10-57996183

Page number: 16 of 21



Page number: 17 of 21

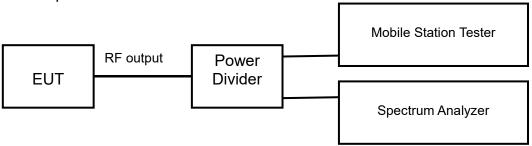


6.9 Peak-Average Ratio

Rule Part(s)

FCC: 24.232(d), 27.50(d) (5)

Test Setup:



Test procedure:

KDB 971168 D01 v03r01 - Section 5.7.1

Test settings:

- 1. The signal analyzer's CCDF measurement profile is enabled
- 2. Frequency = carrier center frequency
- 3. Measurement BW > Emission bandwidth of signal
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve
- 5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

Limits: the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

.

Test result:

The test results are shown in Appendix A

The State Radio_monitoring_center Testing Center (SRTC)
Tel: 86-10-57996183

Page number: 18 of 21



7. MEASUREMENT UNCERTAINTIES

Items	Uncertainty		
RF Power Output	0.6 dB		
Effective Radiated Power and Effective Isotropic Radiated Power	0.6 dB		
Occupied Bandwidth	3kHz		
Emission Bandwidth	3kHz		
Peak-Average Ratio	0.8dB		
Frequency Stability	48Hz		
Band Edges Compliance	1.2dB		
	9kHz~2GHz	1.2dB	
Spurious Emissions at antenna	2G~3.6GHz	1.4dB	
terminal	3.6G~8GHz	2.2dB	
	8G~12.75GHz	2.7dB	
	30MHz∼200MHz	4.88dB	
Dadiated Emission Massurement	200MHz∼1GHz	4.87dB	
Radiated Emission Measurement	1GHz∼18GHz	4.58dB	
	18GHz~40GHz	4.35dB	

Note 1: According to the test specification limit (The test results fully compliance with the test standard limit requirements)

Note 2: According to test specification limits plus uncertainties (The test results exceed the standard limit requirements and meet the standard requirements after adding the system uncertainty)

Note 3: Test operation mode is Note 1

Fax: 86-10-57996388 V3.0.0

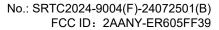
Page number: 19 of 21



8. TEST EQUIPMENTS

No.	Name/Model	Manufacturer	S/N	Calibration Date	Calibration Due Date
1	Mobile Station Tester / MT8820C	Anritsu	6201300660	2024.06.21	2025.06.20
2	Radio Communication Station / CMW500	R&S	161702	2024.06.21	2025.06.20
3	Spectrum Analyzer / FSV40	R&S	101065	2024.06.21	2025.06.20
4	Spectrum Analyzer / N9020A	Agilent	MY48010771	2024.03.06	2025.03.05
5	Power Divider / 11667A	HP	19632	2024.06.21	2025.06.20
6	DC Power Supply / E3645A	Agilent	MY40000741	2024.03.06	2025.03.05
7	Temperature chamber / SH241	ESPEC	92013758	2024.06.21	2025.06.20
8	Fully-Anechoic Chamber / 12.65m×8.03m×7.50m	FRANKONIA			
9	Semi-Anechoic/Chamber / 23.18m×16.88m×9.60m	FRANKONIA			
10	Turn table Diameter:1m	FRANKONIA			
11	Turn table Diameter:5m	FRANKONIA			
12	Antenna master FAC(MA4.0)	MATURO			
13	Antenna master SAC(MA4.0)	MATURO			
14	Shielding room / 9.080m×5.255m×3.525m	FRANKONIA			
15	Double-Ridged Waveguide Horn Antenna / HF 907	R&S	100512	2024.06.21	2025.06.20
16	Double-Ridged Waveguide Horn Antenna / HF 907	R&S	100513	2024.06.21	2025.06.20
17	Ultra log antenna / HL562	R&S	100016	2024.06.21	2025.06.20
18	Receive antenna /3160-09	SCHWARZ- BECK	002058-002	2024.06.21	2025.06.20
19	EMI test receiver / ESI 40	R&S	100015	2024.06.21	2025.06.20
20	EMI test receiver / ESCS30	R&S	100029	2024.06.21	2025.06.20
21	Receive antenna / HL562	R&S	100167	2024.06.21	2025.06.20
22	AMN / ENV216	R&S	3560.6550.12	2024.06.21	2025.06.20
23	FCC auto test system / RT9100L-2	Radiosky	V1.05	/	1
24	EMI test software / EMC32	R&S	V10.20.01	/	1

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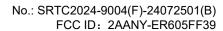


Page number: 20 of 21



APPENDIX A - TEST DATA OF CONDUCTED EMISSION

Note: This product uses the module model FM101-NA and supports WCDMA frequency bands 2/4/5/. Therefore, for this product, we referred to the FM101-NA test report and evaluated the frequency spectrum of the radiated spurious emissions.





APPENDIX B - TEST DATA OF RADIATED EMISSION

Radiated Spurious Emissions

Note1: The worst channel results are reflected in the report.

Note2: The scanned graph represents the maximum of both horizontal and vertical polarizations and is not a single horizontal or vertical polarization scan.

Note3: The worst antenna results are reflected in the report.

WCDMA band II

Test result:

WCDMA Mode:

ANT1: Channel 9400

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1540.00	-76.03	-13	Vertical
1842.00	-76.40	-13	Vertical
2452.00	-77.35	-13	Vertical
3108.00	-81.35	-13	Vertical
3540.00	-79.52	-13	Vertical
4707.00	-87.67	-13	Vertical

WCDMA band IV

Test result:

WCDMA Mode:

ANT1 Channel 1412

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1502.00	-75.63	-13	Vertical
1842.00	-74.65	-13	Vertical
2420.00	-77.12	-13	Vertical
3159.00	-81.86	-13	Vertical
3558.00	-79.70	-13	Vertical
4701.00	-87.42	-13	Vertical

WCDMA band V

Test result:

WCDMA Mode:

ANT1 Channel 4183

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1488.00	-75.57	-13	Vertical
1840.00	-76.57	-13	Vertical
2476.00	-77.86	-13	Vertical
3114.00	-82.32	-13	Vertical
3540.00	-79.93	-13	Vertical
4713.00	-87.79	-13	Vertical

---End of Test Report---

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