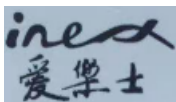


FCC REPORT

(WCDMA)

Product Name : Vehicle Terminal

Trade mark : 

Model No. : 5213
6201 、 6202 、 6203 、 6207 、 6208 、
6209 、 6210 、 6211 、 6213 、 6215 、
6217 、 6218 、 6219 、 6223 、 6225 、
6227 、 6229 、 6231 、 6233 、 6236 、
6239 、 6243 、 6245 、 6251 、 6253 、
6256 、 6257 、 6258 、 6261 、 6263 、
6267 、 6268 、 6271 、 6273 、 6278 、
6283 、 6288 、 6293 、 6502 、 6503 、

Extension model : 6509 、 6513 、 6538 、 6810 、 6833 、
6858 、 6868 、 5208 、 5209 、 5211 、
5215 、 5217 、 5218 、 5219 、 5224 、
5225 、 5227 、 5231 、 5236 、 5239 、
5243 、 5245 、 5251 、 5256 、 5257 、
5258 、 5261 、 5263 、 5267 、 5268 、
5271 、 5273 、 5278 、 5288 、 5293 、
5509 、 5513 、 5523 、 5538 、 5807 、
5810 、 5833 、 5858 、 5868

FCC ID : 2AZHT-AL-XXXX

Report Number : BLA-EMC-202103-A12304

Date of sample receipt : 2021/3/29

Date of Test : 2021/3/29 to 2021/5/7

Date of Issue : 2021/5/10

Test standard : FCC CFR Title 47 Part 2
FCC CFR Title 47 Part22 Subpart H
FCC CFR Title 47 Part24 Subpart E

Test result : PASS



Prepared for:

Shenzhen ALEX Electronics Co., Ltd.**A & B Block, building 1, Jinshun Industrial Park, No.29, Anju Road, Anliang Community,
Henggang Subdistrict, Longgang District, Shenzhen(No.6, 5F, A Block), China**

Prepared by:

BlueAsia of Technical Services(Shenzhen) Co.,Ltd.**Building C, No. 107, Shihuan Road, Shiyuan Sub-District, Baoan District,
Shenzhen, Guangdong Province, China****TEL: +86-755-23059481**

Compiled by:

Jason

Review by:

Sweet. Liang

Approved by:

Imen Li

Date: 2021/5/10



1. Version

Version No.	Date	Description
00	2021/5/10	Original

BlueAsia

2. Contents

	Page
1. VERSION.....	3
2. CONTENTS.....	4
3. TEST SUMMARY.....	5
4. GENERAL INFORMATION.....	6
5.1 CLIENT INFORMATION.....	6
5.2 GENERAL DESCRIPTION OF E.U.T.....	6
5.3 TEST MODES.....	8
5.4 DESCRIPTION OF SUPPORT UNITS.....	8
5.5 MEASUREMENT UNCERTAINTY.....	8
5.6 LABORATORY FACILITY.....	8
5.7 LABORATORY LOCATION.....	8
5.8 TEST INSTRUMENTS LIST.....	9
5. TEST RESULTS.....	11
6.1 CONDUCTED OUTPUT POWER.....	11
6.2 OCCUPY BANDWIDTH.....	12
6.3 PEAK-TO-AVERAGE POWER RATIO.....	13
6.4 MODULATION CHARACTERISTIC.....	14
6.5 OUT OF BAND EMISSION AT ANTENNA TERMINALS.....	14
6.6 ERP, EIRP MEASUREMENT.....	15
6.7 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT.....	17
6.8 FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT.....	21
6.9 FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT.....	22
7 TEST SETUP PHOTO.....	23
8 EUT CONSTRUCTIONAL DETAILS.....	24

3. Test Summary

Test Item	Section in CFR 47	Result
RF Exposure (SAR)	Part 1.1307 Part 2.1093 RSS102 Issue5	Pass (Please refer to SAR Report)
RF Output Power	Part 2.1046 Part 22.913 (a)(2) Part 24.232 (c)	Pass
Peak-to-Average Power Ratio	Part 24.232 (d)	Pass
Modulation Characteristics	Part 2.1047	Pass
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 22.917(b) Part 24.238(b)	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 22.917 (a) Part 24.238 (a)	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 22.917 (a) Part 24.238 (a)	Pass
Out of band emission, Band Edge	Part 22.917 (a) Part 24.238 (a)	Pass
Frequency stability vs. temperature	Part22.355 Part24.235 Part 2.1055(a)(1)(b)	Pass
Frequency stability vs. voltage	Part22.355 Part24.235 Part 2.1055(d)(2)	Pass
Pass: The EUT complies with the essential requirements in the standard.		

4. General Information

5.1 Client Information

Applicant:	Shenzhen ALEX Electronics Co., Ltd.
Address:	A & B Block, building 1, Jinshun Industrial Park, No.29, Anju Road, Anliang Community, Henggang Subdistrict, Longgang District, Shenzhen(No.6, 5F, A Block), China
Manufacturer	Shenzhen ALEX Electronics Co., Ltd.
Address:	A & B Block, building 1, Jinshun Industrial Park, No.29, Anju Road, Anliang Community, Henggang Subdistrict, Longgang District, Shenzhen(No.6, 5F, A Block), China
Factory	Shenzhen ALEX Electronics Co., Ltd.
Address	A & B Block, building 1, Jinshun Industrial Park, No.29, Anju Road, Anliang Community, Henggang Subdistrict, Longgang District, Shenzhen(No.6, 5F, A Block), China

5.2 General Description of E.U.T.

Product Name:	Vehicle Terminal
Test Model No.:	5213
Operation Frequency range:	WCDMA Band V:826.4MHz-846.6MHz WCDMA Band II:1852.4 MHz -1907.6 MHz WCDMA Band IV:1712.4 MHz -1752.6 MHz
Modulation type:	GSM/GPRS:GMSK,EGPRS: 8PSK,UMTS:QPSK,
Antenna type:	External Antenna
Antenna gain:	WCDMA Band V:1.97 dBi WCDMA Band II:4.69 dBi WCDMA Band IV:4.69 dBi
Power supply:	DC12V
Remark:The Antenna Gain is supplied by the customer.BlueAsia is not responsible for this data	

Operation Frequency List:

WCDMA Band V		WCDMA Band II	
Channel:	Frequency (MHz)	Channel:	Frequency (MHz)
4132	826.40	9262	1852.40
4133	826.60	9263	1852.60
....			
4182	836.40	9399	1879.80
4183	836.60	9400	1880.00
4184	836.80	9401	1880.20
...	...	...	...
4232	846.40	9537	1907.40
4233	846.60	9538	1907.60
WCDMA Band IV			
Channel:	Frequency (MHz)		
1312	1712.40		
1313	1712.60		
....			
1449	1739.80		
1450	1740.00		
1451	1740.20		
...	...		
1512	1752.40		
1513	1752.60		

Regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

WCDMA Band V			WCDMA Band II		
Channel		Frequency(MHz)	Channel		Frequency(MHz)
Lowest channel	4132	826.40	Lowest channel	9262	1852.40
Middle channel	4183	836.60	Middle channel	9400	1880.00
Highest channel	4233	846.60	Highest channel	9538	1907.60
WCDMA Band IV					
Channel		Frequency(MHz)			
Lowest channel	1312	1712.40			
Middle channel	1450	1740.00			
Highest channel	1513	1752.60			

5.3 Test modes

Operating Environment:	
Temperature:	Normal: 15℃ ~ 35℃, Extreme: -10℃ ~ +55℃
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar
Voltage:	Nominal: 12Vdc
Test mode:	
RMC mode	Keep the EUT communication with simulated station in RMC mode
HSDPA	Keep the EUT communication with simulated station in HSDPA mode
HSUPA	Keep the EUT communication with simulated station in HSUPA mode
Remark: The EUT has been tested under continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing. The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for these modes with power adaptor, earphone and Data cable. Just the worst case position (H mode) shown in report.	

5.4 Description of Support Units

Test Equipment	Manufacturer	Model No.	Serial No.
Simulated Station	R&S	CMW500	1201.0002K50

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Radiated Emission (9kHz ~ 30MHz)	4.24 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	4.35 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	4.44 dB (k=2)
Radiated Emission (18GHz ~ 26.5GHz)	4.56 dB (k=2)
Radiated Emission (18GHz ~ 26.5GHz)	4.56 dB (k=2)

5.6 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- FCC — Designation No.: CN1252

BlueAsia of Technical Services(Shenzhen) Co.,Ltd. has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Designation CN1252.

- ISED — CAB identifier No.: CN0028

BlueAsia of Technical Services(Shenzhen) Co.,Ltd. has been registered by Certification and Engineering Bureau of ISED for radio equipment testing with CAB identifier CN0028.

- CNAS - Registration No.: CNAS L9788

BlueAsia of Technical Services(Shenzhen) Co.,Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L9788

5.7 Laboratory Location

BlueAsia of Technical Services(Shenzhen) Co., Ltd.
 Building C, No. 107, Shihuan Road, Shiyuan Sub-District, Baoan District, Shenzhen, Guangdong Province, China
 Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673

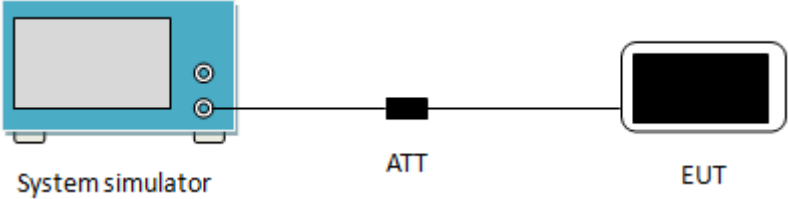
5.8 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Chamber	SKET	966	N/A	2020/11/10	2023/11/9
2	Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
3	Receiver	R&S	ESR7	101199	2020/10/12	2021/10/11
4	broadband Antenna	Schwarzbeck	VULB9168	00836 P:00227	2020/9/26	2022/9/25
5	Horn Antenna	Schwarzbeck	9120D	01892 P:00331	2020/9/26	2022/9/25
6	Amplifier	SKET	PA-000318G-45	N/A	2020/10/16	2021/10/15
7	EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A
8	Loop antenna	SCHNARZBECK	FMZB1519B	00102	2020/9/26	2022/9/25
9	Controller	SKET	N/A	N/A	N/A	N/A
10	Coaxial Cable	BlueAsia	BLA-XC-02	N/A	N/A	N/A
11	Coaxial Cable	BlueAsia	BLA-XC-03	N/A	N/A	N/A
12	Coaxial Cable	BlueAsia	BLA-XC-01	N/A	N/A	N/A

RF Conducted Test:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Spectrum Analyzer	Agilent	N9030A	MY50510123	2020/10/12	2021/10/11
2	Spectrum analyzer	Rohde & Schwarz	FSP40	100817	2020/10/12	2021/10/11
3	Vector Signal Generator	Agilent	E4438C	MY45092582	2020/10/12	2021/10/11
4	Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11
5	Power Sensor	D.A.R.E	RPR3006W	17I00015SNO27	2020/10/12	2021/10/11
7	DC Power Supply	LODESTAR	LP305DE	N/A	2020/10/12	2021/10/11
8	Temperature Humidity Chamber	Mingle	TH101B	N/A	2020/10/12	2021/10/11

5. Test results

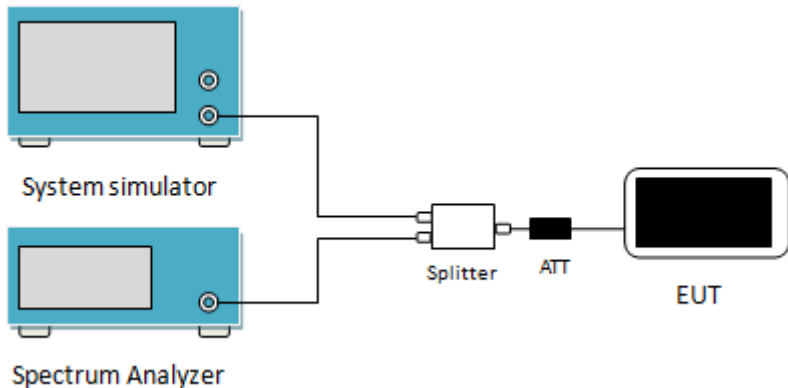
6.1 Conducted Output Power

Test Requirement:	FCC part 22.913(a)(2), FCC part 24.232(c)
Test Method:	ANSI/TIA-603-E 2016
Limit:	WCDMA Band V: 7W, WCDMA Band II/IV: 2W
Test setup:	 The diagram illustrates the test setup for conducted output power measurement. It shows a 'System simulator' (represented by a blue box with a screen) connected via a cable to an 'ATT' (attenuator, represented by a black box). The other end of the cable connects the 'ATT' to the 'EUT' (Equipment Under Test, represented by a black box with a screen). Labels 'System simulator', 'ATT', and 'EUT' are placed below their respective components.
Test Procedure:	The transmitter output was connected to a calibrated attenuator, the other end of which was connected to the simulated station. Transmitter output power was read off in dBm.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data:

Please Refer To Appendix 1: WCDMA RF Test data

6.2 Occupy Bandwidth

Test Requirement:	FCC part 22.917(b), FCC part 24.238(b)
Test Method:	ANSI/TIA-603-E 2016
Test setup:	 The diagram shows a test setup for measuring the occupied bandwidth of an Equipment Under Test (EUT). A System simulator and a Spectrum Analyzer are connected to a Splitter. The Splitter is connected to an ATT (Attenuator) and then to the EUT.
Test Procedure:	1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer 2. RBW was set to about 1% of emission BW, VBW= 3 times RBW. 3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data:

Please Refer To Appendix 1: WCDMA RF Test data

6.3 Peak-to-Average Power Ratio

Test Requirement:	FCC part 24.232(d)
Test Method	ANSI/TIA-603-E 2016
Limit:	The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.
Test setup:	
Test Procedure:	1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. 2 Set the CCDF option in spectrum analyzer, $RBW \geq OBW$, 3 Set the EUT working in highest power level, measured and recorded the 0.1% as PAPR level. 4 Repeat step 1~3 at other frequency and modulations.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

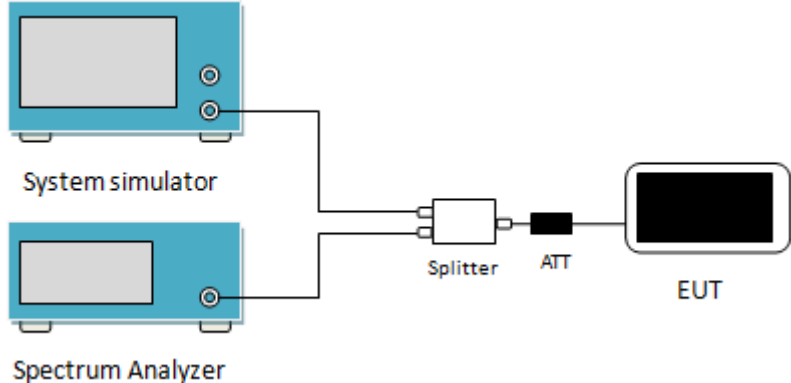
Measurement Data:

Please Refer To Appendix 1: WCDMA RF Test data

6.4 Modulation Characteristic

According to FCC § 2.1047(d), Part 22H & 24E there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

6.5 Out of band emission at antenna terminals

Test Requirement:	FCC part22.917(a), FCC part24.238(a)
Test Method:	ANSI/TIA-603-E 2016
Limit:	-13dBm
Test setup:	 The diagram illustrates the test setup for out-of-band emission measurement. A System simulator is connected to a Splitter. The other output of the Splitter is connected to an ATT (Attenuator), which is then connected to the EUT (Equipment Under Test). The Spectrum Analyzer is connected to the input of the Splitter.
Test Procedure:	1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. 2 The resolution bandwidth of the spectrum analyzer was set at 100 kHz when below 1GHz, 1MHz when above 1 GHz; sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic. 3 For the out of band: Set the RBW=100 kHz, VBW=300 kHz when below 1 GHz, RBW =1 MHz, VBW=3 MHz when above 1 GHz, Start=30MHz, Stop= 10th harmonic. 4 Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Test plots as follows:

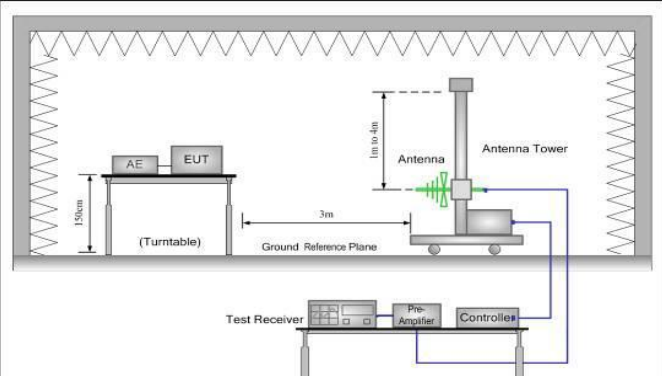
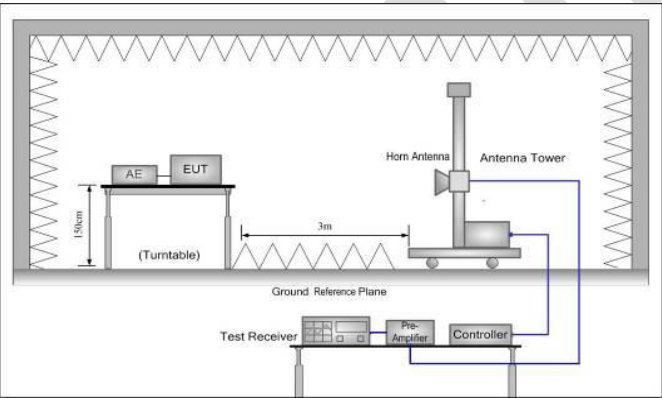
Spurious emission:

Please Refer To Appendix 1: WCDMA RF Test data

Band edge emission:

Please Refer To Appendix 1: WCDMA RF Test data

6.6 ERP, EIRP Measurement

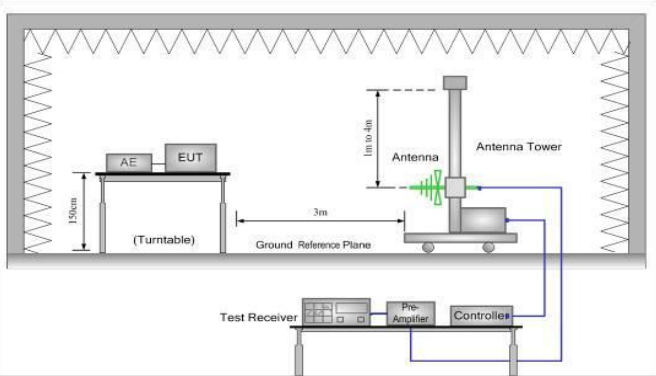
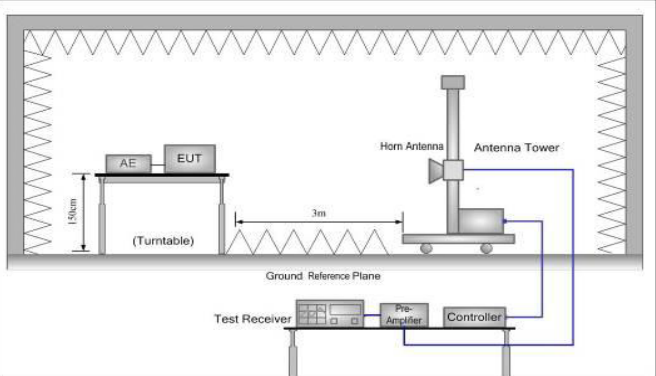
Test Requirement:	FCC part22.913(a)(2), FCC part24.232(c) and FCC part 27.50(d)
Test Method:	ANSI/TIA-603-E 2016
Limit:	UMTS 850: 7W ERP, UMTS1900: 2W EIRP, UMTS1700: 1W EIRP
Test setup:	Below 1GHz  Above 1GHz 
Test Procedure:	1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated. 3. ERP in frequency band 824.2 –848.80.8MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows: $ERP = S.G. \text{ output (dBm) } + \text{Antenna Gain (dBd) } - \text{Cable Loss (dB)}$ 4. EIRP in frequency band 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows: $EIRP = S.G. \text{ output (dBm) } + \text{Antenna Gain (dBi) } - \text{Cable Loss (dB)}$ 5. The worse case was relating to the conducted output power.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data

RCM 12.2kbps

EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
UMTS 850	4132	H	V	22.01	38.45	Pass
			H	19.36		
EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
UMTS 1700	1312	H	V	23.01	30.00	Pass
			H	21.45		
UMTS 1900	9538	H	V	22.18	33.00	Pass
			H	19.50		

6.7 Field strength of spurious radiation measurement

Test Requirement:	FCC part22.917(a), FCC part24.238(a) and FCC part 27.53(h)
Test Method:	ANSI/TIA-603-E 2016
Limit:	-13dBm
Test setup:	Below 1GHz  Above 1GHz 
Test Procedure:	1. The EUT was placed on a non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations. 3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method. 4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. $ERP / EIRP = S.G. \text{ output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}$
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details.
Test results:	Passed

Measurement Data (worst case):

Test mode:	WCDMA BAND V 12.2k RMC		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1652.80	Vertical	-47.16	-13.00	Pass
2479.20	V	-43.51		
1652.80	Horizontal	-52.08	-13.00	Pass
2479.20	H	-49.16		
Test mode:	WCDMA BAND V 12.2k RMC		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1673.20	Vertical	-54.12	-13.00	Pass
2509.80	V	-52.03		
1673.20	Horizontal	-51.19	-13.00	Pass
2509.80	H	-49.18		
Test mode:	WCDMA BAND V 12.2k RMC		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1693.20	Vertical	-54.01	-13.00	Pass
2539.80	V	-45.19		
1693.20	Horizontal	-52.05	-13.00	Pass
2539.80	H	-48.67		

Remark:

- The emission levels of below 1 GHz are very lower than the limit and not show in test report.

Test mode:	WCDMA Band II 12.2k RMC		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3704.80	Vertical	-49.38	-13.00	Pass
5557.20	V	-36.71		
3704.80	Horizontal	-51.03		
5557.20	H	-37.54		
Test mode:	WCDMA Band II 12.2k RMC		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3760.00	Vertical	-48.03	-13.00	Pass
5640.00	V	-37.49		
3760.00	Horizontal	-45.13		
5640.00	H	-36.25		
Test mode:	WCDMA Band II 12.2k RMC		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3815.20	Vertical	-48.26	-13.00	Pass
5722.80	V	-41.41		
3815.20	Horizontal	-45.06		
5722.80	H	-38.87		

Remark:

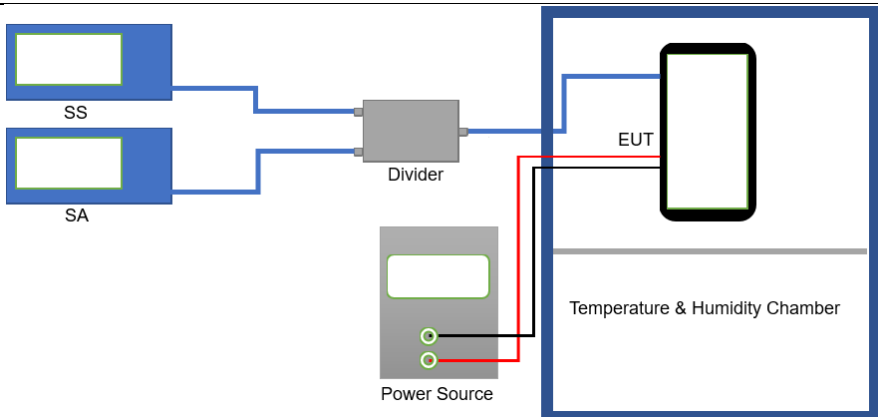
1. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

Test mode:	WCDMA Band IV 12.2k RMC		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3424.80	Vertical	-48.87	-13.00	Pass
5137.20	V	-38.85		
3424.80	Horizontal	-47.74		
5137.20	H	-38.35		
Test mode:	WCDMA Band II 12.2k RMC		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3480.00	Vertical	-43.47	-13.00	Pass
5220.00	V	-35.01		
3480.00	Horizontal	-48.54		
5220.00	H	-35.04		
Test mode:	WCDMA Band II 12.2k RMC		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3505.20	Vertical	-42.03	-13.00	Pass
5257.80	V	-41.01		
3505.20	Horizontal	-47.44		
5257.80	H	-42.08		

Remark:

The emission levels of below 1 GHz are very lower than the limit and not show in test report.

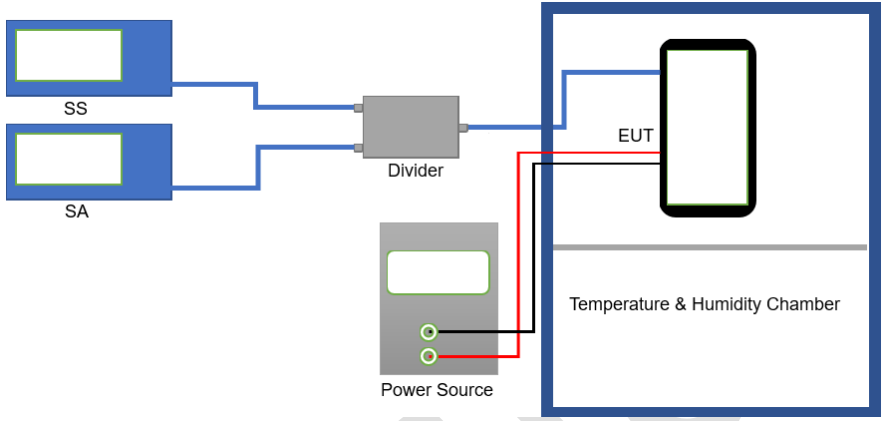
6.8 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part22.355, FCC Part24.235, FCC Part2.1055(a)(1)(b)
Test Method:	ANSI/TIA-603-E 2016
Limit:	$\pm 2.5\text{ppm}$
Test setup:	
Test procedure:	1. The equipment under test was connected to an external DC power supply and input rated voltage. 2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. 3. The EUT was placed inside the temperature chamber. 4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. 5. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. 6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data (the worst channel):

Please Refer To Appendix 1: WCDMA RF Test data

6.9 Frequency stability V.S. Voltage measurement

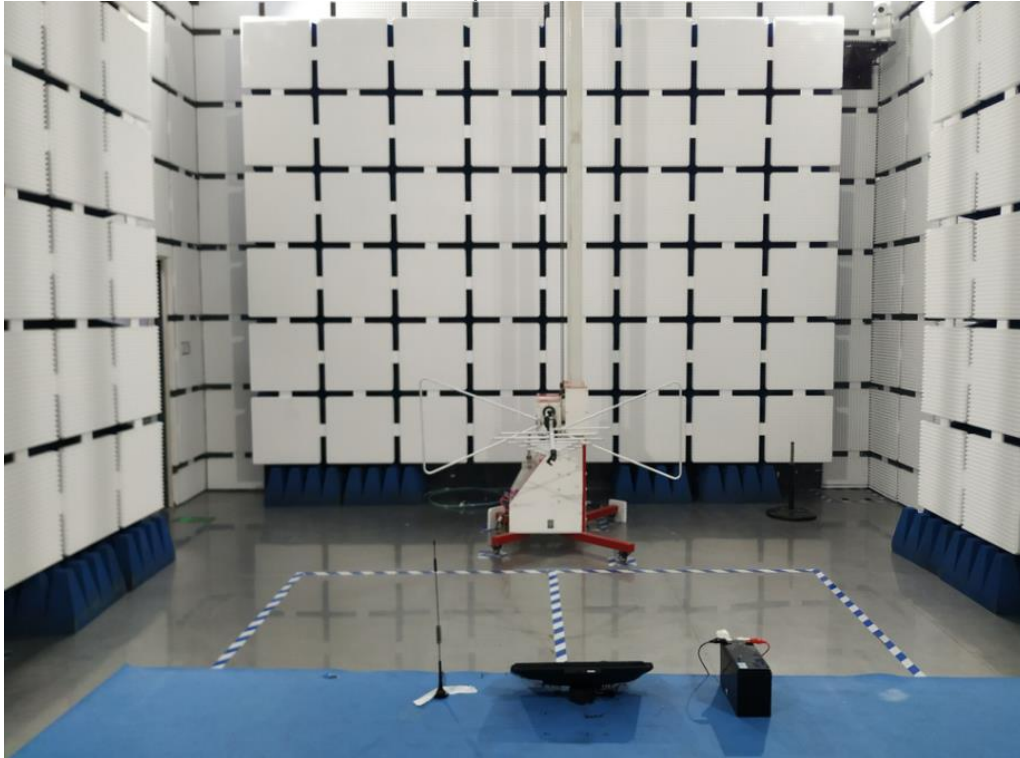
Test Requirement:	FCC Part 22.355, FCC Part 24.235, FCC Part 2.1055(d)(2)
Test Method:	ANSI/TIA-603-E 2016
Limit:	$\pm 2.5\text{ppm}$
Test setup:	
Test procedure:	1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. 2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. 3. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data (the worst channel):

Please Refer To Appendix 1: WCDMA RF Test data

7 Test Setup Photo

Radiated Spurious Emission



8 EUT Constructional Details

Reference to the test report No. BLA-EMC-202103-A12301

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

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of BlueAsia, this report can't be reproduced except in full.

BlueAsia