

# FCC PART 22H TEST REPORT

For

# Shenzhen Xiangyue Perfect Digital Science&Technology Co., Ltd

Building A1, Jiujiutongxin Industrial Zone11, Xinbu, Tongle, Longgang, Shenzhen, China

FCC ID: 2ABYGB8404

Report Type:		Product Type:					
Class II Permissive	Change	3G Mobile Phone					
Test Engineer:	Simon Wang	Simon	wang				
Report Number:	RSZ140423003-00A1						
Report Date:	2014-04-29						
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**Note**: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.

# **TABLE OF CONTENTS**

GENERAL INFORMATION	4
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	
OBJECTIVE	
RELATED SUBMITTAL(S)/GRANT(S)	
TEST METHODOLOGY	
SYSTEM TEST CONFIGURATION	
DESCRIPTION OF TEST CONFIGURATION	
EQUIPMENT MODIFICATIONS	
SUPPORT EQUIPMENT LIST AND DETAILS	6
BLOCK DIAGRAM OF TEST SETUP	
SUMMARY OF TEST RESULTS	
FCC §1.1307 & §2.1093 - RF EXPOSURE	
APPLICABLE STANDARD	
TEST RESULT	
FCC §2.1047 - MODULATION CHARACTERISTIC	9
FCC § 2.1046, § 22.913 (A) - RF OUTPUT POWER	
APPLICABLE STANDARD	
TEST PROCEDURE	
TEST FROCEDURE TEST EQUIPMENT LIST AND DETAILS	
TEST DATA	
FCC §2.1049, §22.917 & §22.905 - BANDWIDTH	
APPLICABLE STANDARD	
TEST PROCEDURE	
TEST PROCEDURE TEST EQUIPMENT LIST AND DETAILS.	
TEST DATA	
FCC §2.1051 & §22.917(A) - SPURIOUS EMISSIONS AT ANTENNA TERMINALS	
APPLICABLE STANDARD	
TEST PROCEDURE	
TEST EQUIPMENT LIST AND DETAILS	
Test Data	
FCC §2.1053 & §22.917 - SPURIOUS RADIATED EMISSIONS	19
APPLICABLE STANDARD	
Test Procedure	
TEST EQUIPMENT LIST AND DETAILS.	
Test Data	20
FCC §22.917(A) - BAND EDGES	21
APPLICABLE STANDARD	21
Test Procedure	21
TEST EQUIPMENT LIST AND DETAILS	
TEST DATA	21
FCC §2.1055 & §22.355 - FREQUENCY STABILITY	24
APPLICABLE STANDARD	24

# Bay Area Compliance Laboratories Corp. (Shenzhen)

Test Procedure	24
TEST EQUIPMENT LIST AND DETAILS	25
Test Data	

Report No.: RSZ140423003-00A1

FCC Part 22H Page 3 of 25

# **GENERAL INFORMATION**

# **Product Description for Equipment under Test (EUT)**

The Shenzhen Xiangyue Perfect Digital Science & Technology Co., Ltd's product, model number: B8404 (FCC ID: 2ABYGB8404) or the "EUT" in this report was a 3G mobile phone, which was measured approximately: 12.5 cm (L) x 6.5 cm (W) x 1.18 cm (H), rated with input voltage: DC 3.8 V rechargeable Li-ion battery

Report No.: RSZ140423003-00A1

\*All measurement and test data in this report was gathered from production sample serial number: 1404149 (Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2014-04-23.

# **Objective**

This test report is prepared on behalf of *Shenzhen Xiangyue Perfect Digital Science&Technology Co., Ltd in* accordance with Part 2-Subpart J, Part 22-Subpart H of the Federal Communication Commissions rules.

The objective is to determine the compliance of the EUT with FCC rules for output power, modulation characteristic, occupied bandwidth, and spurious emission at antenna terminal, spurious radiated emission, frequency stability and band edge.

This is a CIIPC application for adding the WCDMA850 band by software between the original device and the current one, and there is no change of the hardware circuit.

For the changes made to the device, all item testing were performed.

# Related Submittal(s)/Grant(s)

No related submittal.

#### **Test Methodology**

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2-Subpart J as well as the following parts:

Part 22 Subpart H - Public Mobile Services

Applicable Standards: TIA/EIA 603-D, ANSI C63.4-2009.

All radiated and conducted emissions measurements were performed at Bay Area Compliance Laboratories Corp. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement uncertainty with radiated emission is 5.91 dB for 30MHz-1GHz.and 4.92 dB for above 1GHz, 1.95dB for conducted measurement.

FCC Part 22H Page 4 of 25

# **Test Facility**

The test site used by Bay Area Compliance Laboratories Corp.(Shenzhen) to collect test data is located on the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Report No.: RSZ140423003-00A1

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on December 06, 2010. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

FCC Part 22H Page 5 of 25

# **SYSTEM TEST CONFIGURATION**

# **Description of Test Configuration**

The EUT was configured for testing according to TIA/EIA-603-D.

The final qualification test was performed with the EUT operating at normal mode.

# **Equipment Modifications**

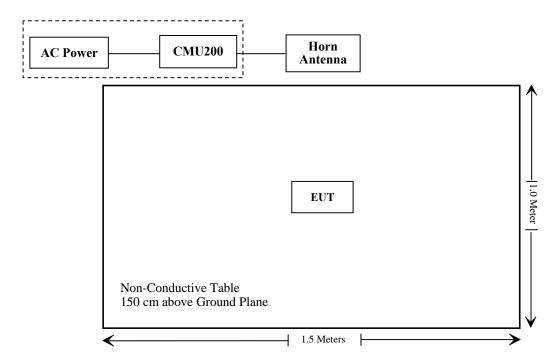
No modification was made to the EUT.

# **Support Equipment List and Details**

Manufacturer	Manufacturer Description		Serial Number
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	106891

Report No.: RSZ140423003-00A1

# **Block Diagram of Test Setup**



FCC Part 22H Page 6 of 25

# SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307, §2.1093	RF Exposure (SAR)	Compliance*
\$2.1046; \$ 22.913 (a)	RF Output Power	Compliance
§ 2.1047	Modulation Characteristics	Not Applicable
§ 2.1049; § 22.905 § 22.917	Bandwidth	Compliance
§ 2.1051, § 22.917 (a)	Spurious Emissions at Antenna Terminal	Compliance
§ 2.1053 § 22.917 (a)	Field Strength of Spurious Radiation	Compliance
§ 22.917 (a)	Out of band emission, Band Edge	Compliance
§ 2.1055 § 22.355	Frequency stability vs. temperature Frequency stability vs. voltage	Compliance

Report No.: RSZ140423003-00A1

Note: \* Please refer to SAR report released by BACL, report number: RSZ140423003-20A1.

FCC Part 22H Page 7 of 25

# FCC §1.1307 & §2.1093 - RF EXPOSURE

Report No.: RSZ140423003-00A1

# **Applicable Standard**

FCC§1.1307 and §2.1093.

# **Test Result**

Compliance, please refer to the SAR report: RSZ140423003-20A1

FCC Part 22H Page 8 of 25

# FCC §2.1047 - MODULATION CHARACTERISTIC

According to FCC  $\S 2.1047(d)$ , Part 22H there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

Report No.: RSZ140423003-00A1

FCC Part 22H Page 9 of 25

# FCC § 2.1046, § 22.913 (a) - RF OUTPUT POWER

# **Applicable Standard**

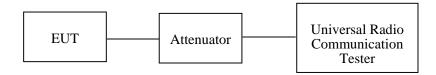
According to FCC §2.1046 and §22.913 (a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

Report No.: RSZ140423003-00A1

#### **Test Procedure**

Conducted method:

The RF output of the transmitter was connected to the wireless test set and the spectrum analyzer through sufficient attenuation.



Radiated method:

TIA 603-D section 2.2.17

# **Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	101122	2013-09-25	2014-09-25
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2011-11-28	2014-11-27
HP	Signal Generator	8341B	2624A00116	2013-05-09	2014-05-09
COM POWER	Dipole Antenna	AD-100	041000	NCR	NCR
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	106891	2013-11-23	2014-11-23

<sup>\*</sup> Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC Part 22H Page 10 of 25

# **Test Data**

# **Environmental Conditions**

Temperature:	26 ℃
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

The testing was performed by Simon Wang on 2014-04-28.

# **Conducted Power**

# Cellular Band (Part 22H)

Report No.: RSZ140423003-00A1

# Results (12.2kbps RMC)

Band	Frequency	Channel NO	Conducted (	Output Power
	(MHz)	Channel NO.	(dBm)	(Watt)
WCDMA 850	826.4	4132	22.28	0.17
	836.6	4183	22.35	0.17
	846.6	4233	22.17	0.16

# **Results (HSDPA)**

Band	Frequency	Channel NO.	(	Conducted Outp	out Power (dBm	1)
Danu	(MHz)	Channel NO.	Subset 1	Subset 2	Subset 3	Subset 4
	826.4	4132	21.36	21.32	21.37	21.39
WCDMA 850	836.6	4183	21.46	21.42	21.40	21.47
650	846.6	4233	21.28	21.26	21.24	21.29

# **Results (HSUPA)**

Pand Frequency		Channel		Conducte	d Output Power (dBm)		
Band	(MHz)	NO.	Subset 1	Subset 2	Subset 3	Subset 4	Subset 5
	826.4	4132	21.35	21.29	21.39	21.28	21.33
WCDMA 850	836.6	4183	21.43	21.44	21.41	21.43	21.45
850	846.6	4233	21.23	21.25	21.21	21.26	22.22

FCC Part 22H Page 11 of 25

# Radiated Power (Measured at Max. conducted power channel)

# ERP

# WCDMA Mode:

	Receiver	Turntable	Rx An	tenna	S	ubstitut	ed	Absolute	FCC Part 22H	
Frequency (MHz)	Reading (dBµV)	Angle Degree	Height (m)	Polar (H/V)	S.G. Level (dBm)	Cable loss (dB)	Antenna Gain (dB)	Level (dBm)	Limit (dBm)	Margin (dB)
ERP for WCDMA 850 (Part 22H), Middle Channel										
836.6	93.82	59	1.5	Н	21.5	0.68	0.0	20.82	38.5	17.68
836.6	93.06	210	1.6	V	20.9	0.68	0.0	20.22	38.5	18.28

Report No.: RSZ140423003-00A1

Note: all above data were tested with no amplifier.

FCC Part 22H Page 12 of 25

# FCC §2.1049, §22.917 & §22.905 - BANDWIDTH

# **Applicable Standard**

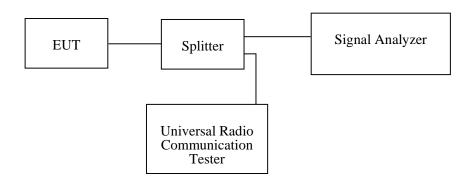
FCC §2.1049, §22.917 and §22.905.

# **Test Procedure**

The RF output of the transmitter was connected to the simulator and the spectrum analyzer through sufficient attenuation.

The resolution bandwidth of the spectrum analyzer was set at 100 kHz (WCDMA) and the 26 dB & 99% bandwidth was recorded.

Report No.: RSZ140423003-00A1



# **Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Signal Analyzer	FSIQ26	837405/023	2013-05-31	2014-05-31
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	106891	2013-11-23	2014-11-23

<sup>\*</sup> Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

#### **Test Data**

# **Environmental Conditions**

Temperature:	26 ℃	
Relative Humidity:	54 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Simon Wang on 2014-04-28.

FCC Part 22H Page 13 of 25

EUT operation mode: Transmitting

Test Result: Compliance. Please refer to the following tables and plots.

# Cellular Band (Part 22H)

Report No.: RSZ140423003-00A1

Mode	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)	
WCDMA (BPSK)	836.6	4.168	4.729	

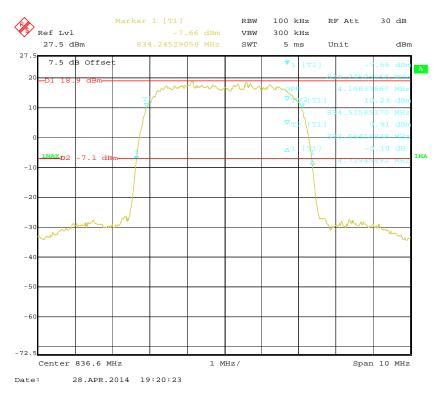
Mode	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)	
HSUPA (BPSK)	836.6	4.168	4.729	

Mode	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)	
HSDPA (16QAM)	836.6	4.168	4.729	

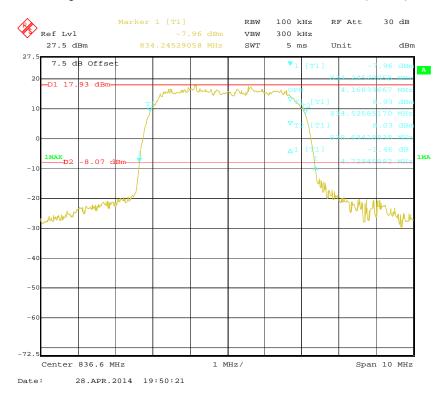
FCC Part 22H Page 14 of 25

# Cellular Band (Part 22H) 99% Occupied & 26 dB Emissions Bandwidth for WCDMA (BPSK) Mode

Report No.: RSZ140423003-00A1



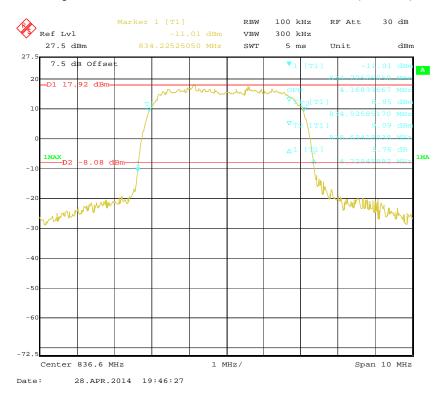
# 99% Occupied & 26 dB Emissions Bandwidth for HSUPA (BPSK) Mode



FCC Part 22H Page 15 of 25

# 99% Occupied & 26 dB Emissions Bandwidth for HSDPA (16QAM) Mode

Report No.: RSZ140423003-00A1



FCC Part 22H Page 16 of 25

# FCC §2.1051 & §22.917(a) - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Report No.: RSZ140423003-00A1

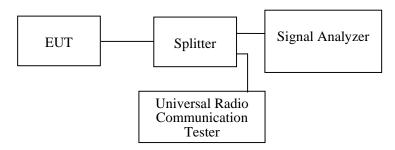
#### **Applicable Standard**

FCC §2.1051 and §22.917(a).

The spectrum was to be investigated to the tenth harmonics of the highest fundamental frequency as specified in § 2.1051.

#### **Test Procedure**

The RF output of the transceiver was connected to a spectrum analyzer and simulator through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz. Sufficient scans were taken to show any out of band emissions up to 10<sup>th</sup> harmonic.



# **Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Signal Analyzer	FSIQ26	837405/023	2013-05-31	2014-05-31
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	106891	2013-11-23	2014-11-23

<sup>\*</sup> Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

#### **Test Data**

#### **Environmental Conditions**

Temperature:	26 ℃
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

The testing was performed by Simon Wang on 2014-04-28.

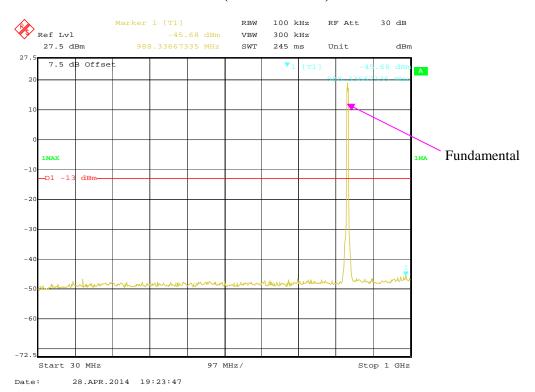
Test result: Compliance, please refer to the following plots.

FCC Part 22H Page 17 of 25

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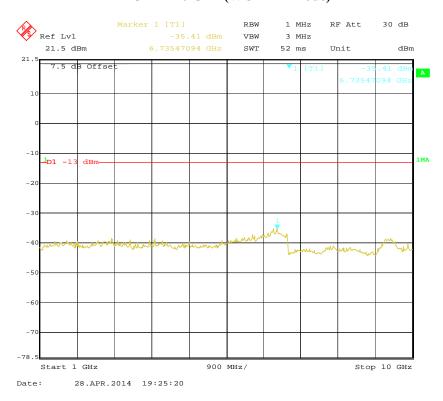
Cellular Band (Part 22H)

# 30 MHz – 1 GHz (WCDMA Mode)



Report No.: RSZ140423003-00A1

# 1 GHz – 10 GHz (WCDMA Mode)



FCC Part 22H Page 18 of 25

# FCC §2.1053 & §22.917 - SPURIOUS RADIATED EMISSIONS

# **Applicable Standard**

FCC § 2.1053 and §22.917.

#### **Test Procedure**

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

Report No.: RSZ140423003-00A1

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the receiving antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in  $dB = 10 \lg (TXpwr in Watts/0.001) - the absolute level$ 

Spurious attenuation limit in  $dB = 43 + 10 \text{ Log}_{10}$  (power out in Watts)

# **Test Equipment List and Details**

Manufacturer	turer Description Model		Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Horn Antenna	DRH-118	A052304	2011-12-01	2014-11-30
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2011-11-28	2014-11-27
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2013-11-12	2014-11-12
Rohde & Schwarz	EMI Test Receiver	Test Receiver ESCI 10		2013-09-25	2014-09-25
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2014-04-03	2015-04-03
HP	Amplifier	8447E	1937A01046	2013-09-30	2014-09-30
HP	Signal Generator	8341B	2624A00116	2013-05-09	2014-05-09
COM POWER	Dipole Antenna	AD-100	041000	NCR	NCR
A.H. System	Horn Antenna	SAS-200/571	135	2012-02-11	2015-02-10
Electro-Mechanics	Horn Antenna	3116	9510-2270	2013-10-14	2016-10-13
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	106891	2013-11-23	2014-11-23

<sup>\*</sup> Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC Part 22H Page 19 of 25

# **Test Data**

# **Environmental Conditions**

Temperature:	26 ℃
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

The testing was performed by Simon Wang on 2014-04-28.

EUT operation mode: Transmitting (worst case)

# **30 MHz** ~ **10 GHz**:

# **Cellular Band (Part 22H)**

Report No.: RSZ140423003-00A1

Receiver Turntable		Rx An	tenna	,	Substitut	ed	Absolute	FCC P	art 22H	
Frequency (MHz)	Reading (dBµV)	Angle Degree	Height (m)	Polar (H/V)	SG Level (dBm)	Cable Loss (dB)	Antenna Gain (dB)	Level (dBm)	Limit (dBm)	Margin (dB)
WCDMA 850(Band V) Middle channel										
523.6	30.16	65	2.1	Н	-66.7	0.52	0	-67.22	-13	54.22
523.6	31.29	208	1.8	V	-65.6	0.52	0	-66.12	-13	53.12
1673.2	59.02	151	2.5	Н	-44.0	0.97	9.40	-35.57	-13	22.57
1673.2	61.50	160	1.6	V	-39.0	0.97	9.40	-30.57	-13	17.57

#### Note:

1) Absolute Level = SG Level - Cable loss + Antenna Gain

2) Margin = Limit- Absolute Level

FCC Part 22H Page 20 of 25

# FCC §22.917(a) - BAND EDGES

# **Applicable Standard**

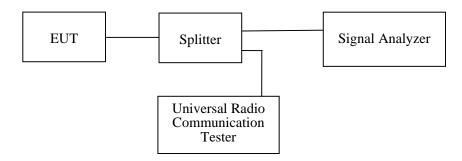
According to § 22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

Report No.: RSZ140423003-00A1

#### **Test Procedure**

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The center of the spectrum analyzer was set to block edge frequency



# **Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Signal Analyzer	FSIQ26	837405/023	2013-05-31	2014-05-31
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	106891	2013-11-23	2014-11-23

<sup>\*</sup> Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

# **Test Data**

#### **Environmental Conditions**

Temperature:	26 ℃
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

The testing was performed by Simon Wang on 2014-04-28.

EUT operation mode: Transmitting

FCC Part 22H Page 21 of 25

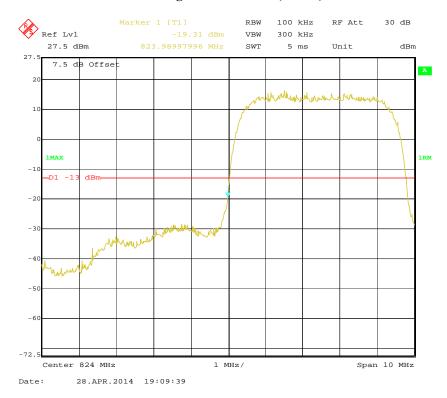
Test Result: Compliance. Please refer to the following tables and plots.

# Cellular Band (Part 22H)

Report No.: RSZ140423003-00A1

Mode	Band Edge	Band Edge Emission (dBm)	
WCDMA	Left Band	-19.31	≤-13
(BPSK)	Right Band	-19.47	≤-13

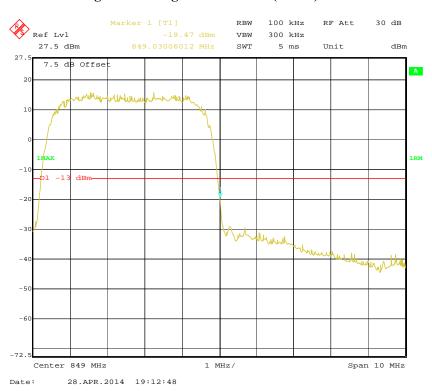
# Left Band Edge for WCDMA (BPSK) Mode



FCC Part 22H Page 22 of 25

# Right Band Edge for WCDMA (BPSK) Mode

Report No.: RSZ140423003-00A1



FCC Part 22H Page 23 of 25

# FCC §2.1055 & §22.355 - FREQUENCY STABILITY

# **Applicable Standard**

FCC § 2.1055, §22.355

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:

Frequency Tolerance for Transmitters in the Public Mobile Service
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Report No.: RSZ140423003-00A1

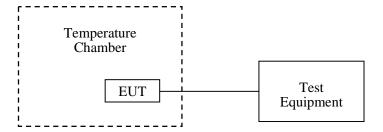
Frequency Range (MHz)	Base, fixed (ppm)	Mobile ≤3 watts (ppm)	Mobile ≤ 3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929.	5.0	N/A	N/A
929 to 960.	1.5	N/A	N/A
2110 to 2220	10.0	N/A	N/A

#### **Test Procedure**

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the communication test set.

Frequency Stability vs. Voltage: For hand carried, battery powered equipment; reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.



FCC Part 22H Page 24 of 25

# **Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ESPEC	Temperature & Humidity Chamber	EL-10KA	09107726	2013-11-01	2014-11-01
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	106891	2013-11-23	2014-11-23

Report No.: RSZ140423003-00A1

# **Test Data**

#### **Environmental Conditions**

Temperature:	26 ℃	
Relative Humidity:	55 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Simon Wang on 2014-04-28.

EUT operation mode: Transmitting

Test Result: Compliance. Please refer to the following tables.

# Cellular Band (Part 22H)

#### **WCDMA Mode**

Middle Channel, f <sub>o</sub> =836.6 MHz					
Temperature (°C)	Power Supplied (V <sub>DC</sub> )	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-30		8	0.009563	2.5	
-20		9	0.010758	2.5	
-10		6	0.007172	2.5	
0		11	0.013148	2.5	
10	3.8	12	0.014344	2.5	
20		5	0.005977	2.5	
30		7	0.008367	2.5	
40		9	0.010758	2.5	
50		8	0.009563	2.5	
25	V <sub>min.</sub> = 3.5	10	0.011953	2.5	
25	V <sub>max.</sub> = 4.2	13	0.015539	2.5	

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

FCC Part 22H Page 25 of 25

<sup>\*</sup> Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).