



# FCC PART 22H, PART 24E

# MEASUREMENT AND TEST REPORT

For

# Bess Mobile HK, Limited

Unit21 15/F Tuen Mun Central Square, 22 Hoi Wing Road,

Tuen Mun, New Territories, Hong Kong, China

FCC ID: ZE6M900T

Report Type: Product Type:

Original Report Mobile Phone

Test Engineer: Brown Lu

**Report Number:** RSZ120118001-00B

**Report Date:** 2012-02-27

Merry Zhao

**Reviewed By:** EMC Engineer

**Test Laboratory:** Bay Area Compliance Laboratories Corp. (Shenzhen)

6/F, the 3rd Phase of WanLi Industrial Building,

ShiHua Road, FuTian Free Trade Zone

Shenzhen, Guangdong, China

Tel: +86-755-33320018 Fax: +86-755-33320008 www.baclcorp.com.cn

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\* This report contains data that are not covered by the NVLAP accreditation and are marked with an asterisk "\*\pm" (Rev.2)

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#### **GENERAL INFORMATION**

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

The Bess Mobile HK, Limited's product, model number: M900T (FCC ID: ZE6M900T) (the "EUT") in this report was a Mobile Phone, which was measured approximately: 20.0 cm (W) x 15.3 cm (D) x 1.4 cm (H), rated input voltage: DC 3.7V Lithium battery.

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Frequency Range:

Cellular Band: 824-849 MHz (Tx), 869-894 MHz (Rx) PCS Band: 1850-1910 MHz (Tx), 1930-1990 MHz (Rx)

Bluetooth: 2402-2480 MHz (Tx/Rx)

Modulation Mode: GMSK (Cellular/PCS); GFSK, π/4-DQPSK, 8DPSK (Bluetooth)

Transmitter Output Power:

Cellular Band: 31.72 dBm (Conducted) PCS Band: 29.43 dBm(Conducted) Bluetooth: 5.29 dBm (Conducted)

#### **Objective**

This report is prepared on behalf of *Bess Mobile HK*, *Limited* in accordance with Part 2-Subpart J, Part 22-Subpart H, and Part 24-Subpart E of the Federal Communication Commissions rules.

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

## **Related Submittal(s)/Grant(s)**

FCC Part 15.247 DSS and 15B JBP submission with FCC ID: ZE6M900T.

## **Test Methodology**

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

Part 22 Subpart H - Public Mobile Services

Part 24 Subpart E - Personal Communication Services

Applicable Standards: TIA/EIA 603-C, 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.

The uncertainty of any RF tests which use conducted method measurement is  $\pm 0.96$  dB, the uncertainty of any radiation on emissions measurement is  $\pm 4.0$  dB

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<sup>\*</sup> All measurement and test data in this report was gathered from production sample serial number: 1201053 (Assigned by BACL, Shenzhen). The EUT was received on 2012-01-18.

#### **Test Facility**

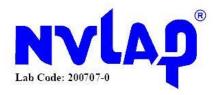
The Test site used by Bay Area Compliance Laboratories Corp.(Shenzhen) to collect test data is located on the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

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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.

Additionally, Bay Area Compliance Laboratories Corp. (Shenzhen) is an ISO/IEC 17025 accredited laboratory, and is accredited by National Voluntary Laboratory Accredited Program (Lab Code 200707-0).



The current scope of accreditations can be found at http://ts.nist.gov/Standards/scopes/2007070.htm

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# **SYSTEM TEST CONFIGURATION**

#### **Justification**

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

The GSM/PCS item test was performed with the EUT operating at normal mode.

The GPRS item test was performed with the EUT operating at testing mode.

# **Equipment Modifications**

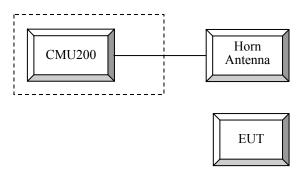
No modification was made to the EUT.

# **Support Equipment List and Details**

Manufacturer	Description	Model	Serial Number
R & S	Universal Radio Communication Tester	CMU200	109038

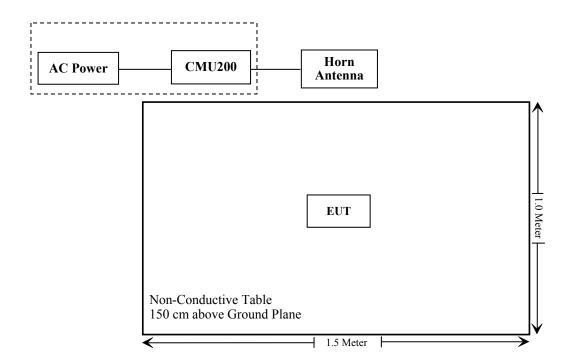
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# **Configuration of Test Setup**



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# **Block Diagram of Test Setup**



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# **SUMMARY OF TEST RESULTS**

FCC Rules	Description of Test	Result
§1.1307, §2.1093	RF Exposure (SAR)	Compliance*
§2.1046; § 22.913 (a); § 24.232 (c)	RF Output Power	Compliance
§ 2.1047	Modulation Characteristics	Not Applicable
§ 2.1049; § 22.905 § 22.917; § 24.238	26 dB Occupied Bandwidth	Compliance
§ 2.1051, § 22.917 (a); § 24.238 (a)	Spurious Emissions at Antenna Terminal	Compliance
§ 2.1053 § 22.917 (a); § 24.238 (a)	Field Strength of Spurious Radiation	Compliance
§ 22.917 (a); § 24.238 (a)	Out of band emission, Band Edge	Compliance
§ 2.1055 § 22.355; § 24.235	Frequency stability vs. temperature Frequency stability vs. voltage	Compliance

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Note: \* Please refer to SAR report released by BACL, report number: RSZ120118001-20

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# FCC §1.1307 & §2.1093 - RF EXPOSURE

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# **Applicable Standard**

FCC §1.1307 and §2.1093.

# **Test Result**

Compliance, please refer to the SAR report: RSZ120118001-20

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# FCC §2.1047 - MODULATION CHARACTERISTIC

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

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# FCC §2.1046, §22.913 (a) & §24.232 (c) - 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.

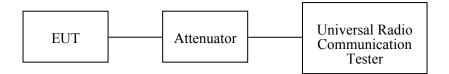
Report No.: RSZ120118001-00B

According to FCC §2.1046 and §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..

#### **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-C section 2.2.17

## **Test Equipment List and Details**

Manufacturer	Description   Model   ~~~		Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Horn Antenna	DRH-118	A052604	2011-05-05	2012-05-04
Rohde & Schwarz	Spectrum Analyzer	FSIQ 26	609358	2011-07-08	2012-07-07
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2011-07-05	2012-07-04
Mini-Circuits	Amplifier ZVA-213+ T		T-E27H	2011-03-08	2012-03-07
НР	Signal Generator HP8657A 2849U00982		2849U00982	2011-10-28	2012-10-27
НР	HP Amplifier		2944A09795	2011-08-02	2012-08-02
НР	Synthesized Sweeper	8341B 2624A00116		2011-11-07	2012-11-06
COM POWER	Dipole Antenna	AD-100	041000	2011-09-25	2012-09-25
A.H. System	Horn Antenna	SAS-200/571	135	2011-05-17	2012-05-17

<sup>\*</sup> **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

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# **Test Data**

# **Environmental Conditions**

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.0kPa

The testing was performed by Brown Lu on 2012-01-18.

# **Conducted Power**

# Cellular Band (Part 22H)

Report No.: RSZ120118001-00B

Mode	Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)
	128	824.2	31.59	38.45
GSM	190	836.6	31.64	38.45
	251	848.8	31.72	38.45

Mode	Channel	Frequency	Output Power (dBm)				
		(MHz)	1 slot	2 slots	3 slots	4 slots	
GPRS	128	824.2	31.59	30.54	28.72	27.59	
	190	836.6	31.61	30.48	28.72	27.53	
	251	848.8	31.63	30.50	28.74	27.50	

# PCS Band (Part 24E)

Mode	Channel Frequency (MHz)		Output Power (dBm)	Limit (dBm)	
	512	1850.2	29.43	33	
GSM	661	1880.0	29.31	33	
	810	1909.8	29.19	33	

Mode	Channel	Frequency	Output Power (dBm)				
		(MHz)	1 slot	2 slots	3 slots	4 slots	
GPRS	512	1850.2	29.34	28.82	27.31	26.34	
	661	1880.0	29.19	28.64	27.16	26.15	
	810	1909.8	29.07	28.48	27.14	26.08	

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# **ERP & EIRP**

# ERP for Cellular Band (Part 22H)

Report No.: RSZ120118001-00B

Indic	cated	Table Test Antenna		Sı	Substituted			Cable	Absolute	Part 22H	
Frequency (MHz)	S.A. Reading (dBµV)	Angle Degree	Height (m)	Polar (H/V)	Frequency (MHz)	S.G. Level (dBm)	Ant. Polar (H/V)	Gain Correction (dBd)	Loss (dB)	Level (dBm)	Limit (dBm)
	High Channel										
848.8	101.09	15	1.8	Н	848.8	28.1	Н	0	0.9	27.2	38.45
848.8	106.41	164	1.6	V	848.8	33.3	V	0	0.9	32.4	38.45

# EIRP for PCS Band (Part 24E)

Indic	ated	Table	Test Antenna		Substituted			Antenna	Cable	Absolute	Part 24E
Frequency (MHz)	S.A. Reading (dBµV)	Angle Degree	Height (m)	Polar (H/V)	Frequency (MHz)	S.G. Level (dBm)	Ant. Polar (H/V)	Gain Correction (dBi)	Loss (dB)	Level (dBm)	Limit (dBm)
	Low Channel										
1850.2	94.56	253	1.5	Н	1850.2	21.6	Н	6.2	1.10	26.7	33
1850.2	97.39	138	1.9	V	1850.2	24.4	V	6.2	1.10	29.5	33

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# FCC §2.1049, §22.917, §22.905 & §24.238 - OCCUPIED BANDWIDTH

Report No.: RSZ120118001-00B

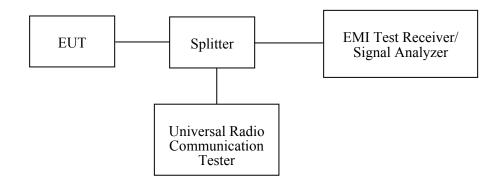
## **Applicable Standard**

FCC §2.1049, §22.917, §22.905 and §24.238.

## **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 3 kHz (Cellular /PCS) and the 26 dB bandwidth was recorded.



# **Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2011-11-11	2012-11-10
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	109038	2011-04-11	2012-04-10

<sup>\*</sup> Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

## **Test Data**

#### **Environmental Conditions**

Temperature:	25 °C
Relative Humidity:	56%
ATM Pressure:	100.0kPa

The testing was performed by Brown Lu on 2012-01-29.

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# **Test Result:** Compliance

Please refer to the following tables and plots:

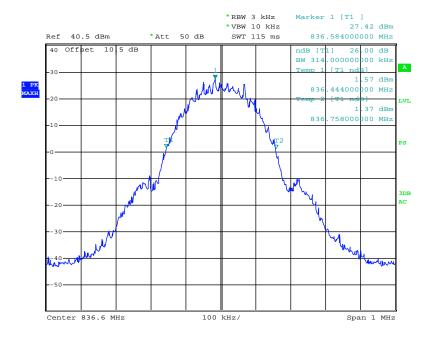
Cellular Band (Part 22H)

Channel	Frequency (MHz)	26 dB Occupied Bandwidth (kHz)
190	836.6	314

PCS Band (Part 24E)

Channel	Frequency (MHz)	26 dB Occupied Bandwidth (kHz)
661	1880.0	312

# Cellular Band (Part 22H)

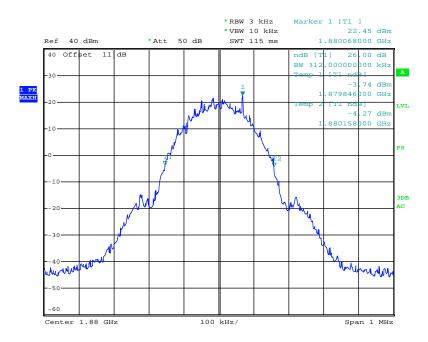


Date: 29.JAN.2012 22:53:24

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# PCS Band (Part 24E)

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Date: 29.JAN.2012 22:59:30

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# FCC §2.1051, §22.917(a) & §24.238(a) - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Report No.: RSZ120118001-00B

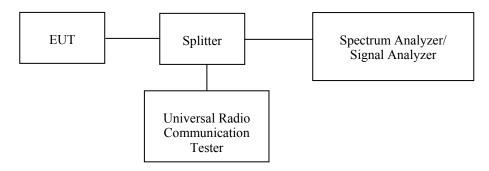
## **Applicable Standard**

FCC §2.1051, §22.917(a) and §24.238(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 100 kHz. 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
Rohde & Schwarz	Spectrum Analyzer	FSIQ 26	609358	2011-07-08	2012-07-07
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2011-11-11	2012-11-10

<sup>\*</sup> Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

#### **Test Data**

#### **Environmental Conditions**

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.0kPa

The testing was performed by Brown Lu on 2012-01-29 and 2012-01-30.

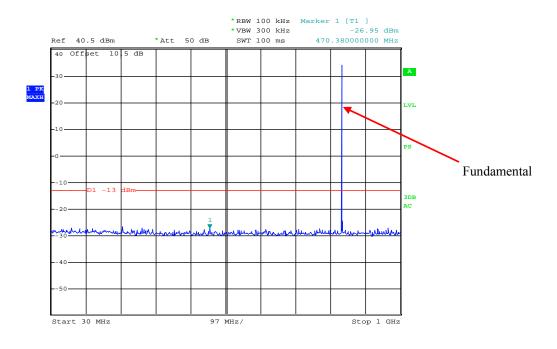
Test Result: Compliance

Please refer to the following plots:

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

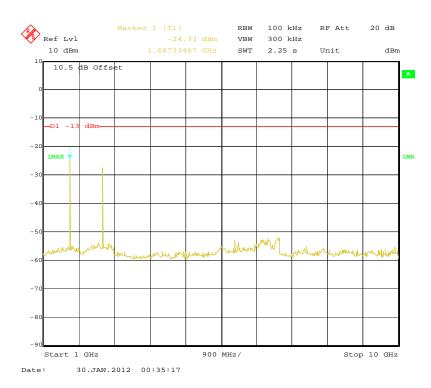
## 30 MHz-1 GHz - Middle Channel



Report No.: RSZ120118001-00B

Date: 29.JAN.2012 22:44:17

#### 1 GHz-10 GHz - Middle Channel

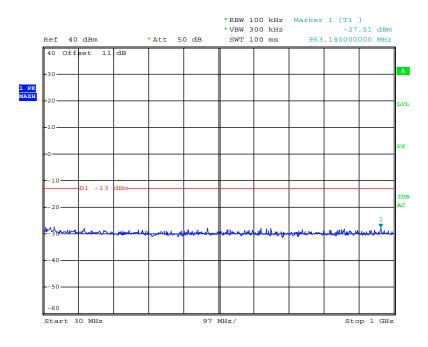


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# PCS Band (Part 24E)

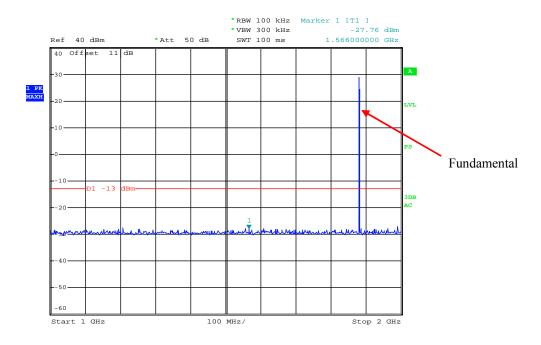
30 MHz - 1 GHz - Middle Channel

Report No.: RSZ120118001-00B



Date: 29.JAN.2012 23:07:50

## 1 GHz - 2 GHz - Middle Channel

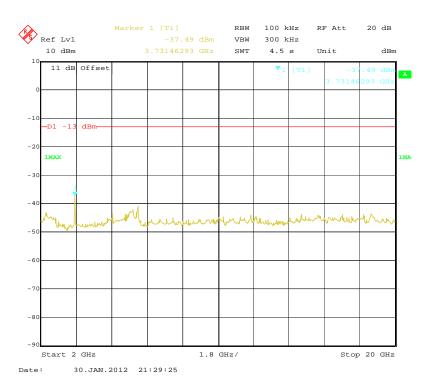


Date: 29.JAN.2012 23:07:18

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# 2 GHz - 20 GHz - Middle Channel

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# FCC §2.1053, §22.917 & §24.238 - SPURIOUS RADIATED EMISSIONS

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# **Applicable Standard**

FCC §2.1053, §22.917 and §24.238.

## **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.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the 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	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Horn Antenna	DRH-118	A052604	2011-05-05	2012-05-04
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2011-07-05	2012-07-04
Rohde & Schwarz	Spectrum Analyzer	FSIQ 26	609358	2011-07-08	2012-07-07
Mini-Circuits	Amplifier	ZVA-213+	T-E27H	2011-03-08	2012-03-07
HP	Signal Generator	HP8657A	2849U00982	2011-10-28	2012-10-27
НР	Amplifier	HP8447D	2944A09795	2011-08-02	2012-08-02
HP	Synthesized Sweeper	8341B	2624A00116	2011-11-07	2012-11-06
COM POWER	Dipole Antenna	AD-100	041000	2011-09-25	2012-09-25
A.H. System	Horn Antenna	SAS-200/571	135	2011-05-17	2012-05-17
Electro-Mechanics	Horn Antenna	3116	9510-2270	2011-10-11	2012-10-10

<sup>\*</sup> **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

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# **Test Data**

# **Environmental Conditions**

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.0kPa

The testing was performed by Brown Lu on 2012-01-30.

Test Mode: Transmitting
Test Result: Compliance

# Cellular Band (Part 22H)

Report No.: RSZ120118001-00B

# 30 MHz-10 GHz

Indica	ated	Table	Table Test Antenna Subs		Substitu	ted		Absolute			
Frequency (MHz)	S.A. Reading (dBµV)	Angle Degree	Height (m)	Polar (H/V)	Frequency (MHz)	Level (dBm)	Ant. Gain (dB)	Cable Loss (dB)	Level (dBm)	Limit (dBm)	Margin (dB)
					Middle Ch	annel					
1673.4	71.60	250	1.2	Н	1673.4	-27.5	6.2	0.93	-22.23	-13	9.23
1673.4	81.20	130	1.6	V	1673.4	-19.6	6.2	0.93	-14.33	-13	1.33
2509.9	65.31	160	1.5	Н	2509.9	-30.2	7.2	1.21	-24.21	-13	11.21
2509.9	66.75	240	1.4	V	2509.9	-28.8	7.2	1.21	-22.81	-13	9.81
3346.6	57.64	210	1.3	Н	3346.6	-31.4	6.7	1.39	-26.09	-13	13.09
3346.6	64.29	190	1.1	V	3346.6	-23.5	6.7	1.39	-18.19	-13	5.19
4183.4	54.55	150	1.9	Н	4183.4	-36.4	7.6	1.59	-30.39	-13	17.39
4183.4	55.18	140	1.2	V	4183.4	-33.7	7.6	1.59	-27.69	-13	14.69
5019.7	56.02	160	2.0	Н	5019.7	-32.9	7.9	1.73	-26.73	-13	13.73
5019.7	62.94	320	1.3	V	5019.7	-24.9	7.9	1.73	-18.73	-13	5.73

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# PCS Band (Part 24E)

Report No.: RSZ120118001-00B

# 30 MHz-20 GHz

Indica	ted	Table	Test Aı	ntenna		Substitu	ted		Absolute		
Frequency (MHz)	S.A. Reading (dBµV)	Angle Degree	Height (m)	Polar (H/V)	Frequency (MHz)	Level (dBm)	Ant. Gain (dB)	Cable Loss (dB)	Level (dBm)	Limit (dBm)	Margin (dB)
					Middle Cha	annel					
3760.1	59.31	180	1.3	Н	3760.1	-35.4	6.9	1.48	-29.98	-13	16.98
3760.1	62.00	130	2.1	V	3760.1	-32.2	6.9	1.48	-26.74	-13	13.74
5602.3	53.72	250	1.4	Н	5602.3	-39.9	8.3	1.77	-33.37	-13	20.37
5602.3	51.43	310	1.9	V	5602.3	-40.4	8.3	1.77	-33.85	-13	20.85
7495.0	46.18	140	1.7	Н	7495.0	-43.3	7.6	2.08	-37.74	-13	24.74
7495.0	45.08	160	1.3	V	7495.0	-45.0	7.6	2.08	-39.51	-13	26.51

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# FCC §22.917(a) & §24.238(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.

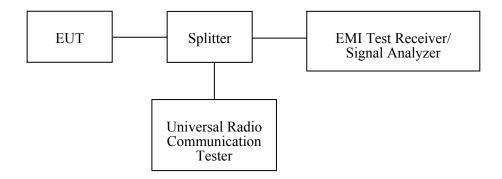
Report No.: RSZ120118001-00B

According to \$24.238(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  $43 + 10 \log(P) dB$ .

#### **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, RBW set to 3 kHz.



# **Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2011-11-11	2012-11-10	

<sup>\*</sup> **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

#### **Test Data**

# **Environmental Conditions**

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.0kPa

The testing was performed by Brown Lu on 2012-01-29.

Test Result: Compliance

Please refer to the following tables and plots:

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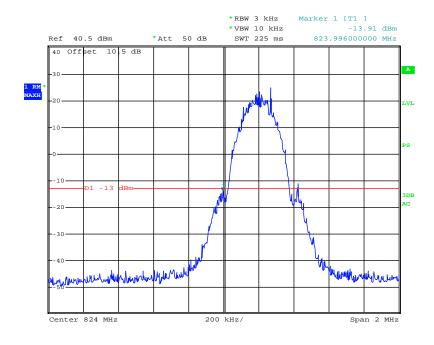
Report No.: RSZ120118001-00B

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.996	-13.91	-13
849.020	-13.96	-13

PCS Band (Part 24E)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.996	-17.73	-13
1910.020	-17.66	-13

# Cellular Band, Left Band Edge

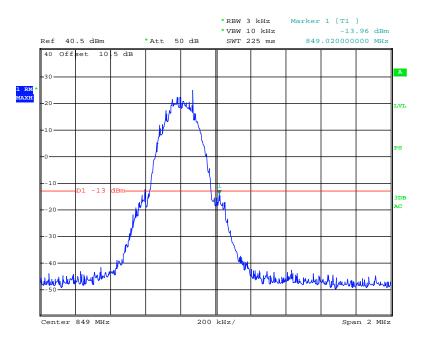


Date: 29.JAN.2012 22:48:19

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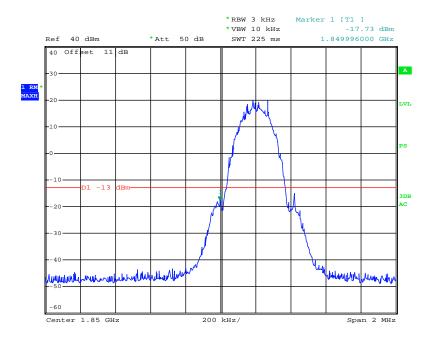
# Cellular Band, Right Band Edge

Report No.: RSZ120118001-00B



Date: 29.JAN.2012 22:49:51

## PCS Band, Left Band Edge

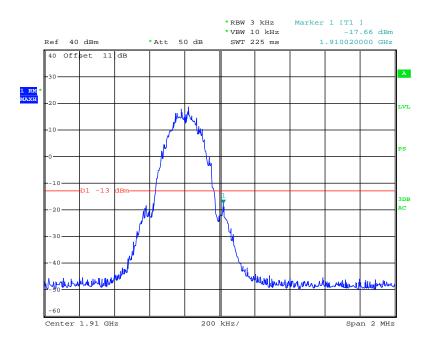


Date: 29.JAN.2012 23:03:19

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# PCS Band, Right Band Edge

Report No.: RSZ120118001-00B



Date: 29.JAN.2012 23:04:35

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# FCC §2.1055, §22.355 & §24.235 - FREQUENCY STABILITY

# **Applicable Standard**

FCC § 2.1055 (a), § 2.1055 (d), §22.355, §24.235

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:

	TT 1 C	TT		D 11'	3 f 1 '1 O '
Frequency	Lolerance to	r Transmitte	erc in the	Public	Mobile Services
1 I Cquency	1 Officiality 10	i iiansmitt		I uone	IVIOUTIC DCI VICCS

Report No.: RSZ120118001-00B

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

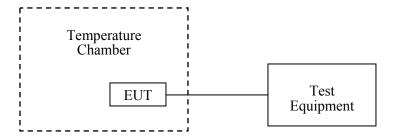
According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

#### **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: An external variable DC power supply was connected to the battery terminals of the equipment under test. The voltage was set to 115% of the nominal value and was then decreased until the transmitter light no longer illuminated; i.e., the battery end point. The output frequency was recorded for each battery voltage.



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# **Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
WUHUAN	Temperature & Humidity Chamber	HTP205	20021115	2011-06-04	2012-06-03
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	109038	2011-04-11	2012-04-10

Report No.: RSZ120118001-00B

# **Test Data**

## **Environmental Conditions**

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.0kPa

The testing was performed by Brown Lu on 2012-01-30.

# Cellular Band (Part 22H)

Middle Channel, f <sub>0</sub> = 836.6 MHz					
Temperature (°C)	Power Supplied (V <sub>DC</sub> )	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-30		25	0.0298829	2.5	
-20		24	0.0286875	2.5	
-10		23	0.0274922	2.5	
0	3.7	23	0.0274922	2.5	
10		16	0.0191250	2.5	
20		14	0.0167344	2.5	
30		18	0.0215157	2.5	
40		21	0.0251016	2.5	
50		26	0.0310782	2.5	
25	V max.=4.2	14	0.0167344	2.5	
	V min.= 3.5	16	0.0191250	2.5	

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<sup>\*</sup> **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

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Middle Channel, f <sub>o</sub> = 1880.0 MHz				
Temperature (°C)	Power Supplied (V <sub>DC</sub> )	Frequency Error (Hz)	Frequency Error (ppm)	Result
-30		26	0.0138298	pass
-20		25	0.0132979	pass
-10		24	0.0127660	pass
0	]	23	0.0122340	pass
10	3.7	20	0.0106383	pass
20		22	0.0117021	pass
30		26	0.0138298	pass
40		24	0.0127660	pass
50		25	0.0132979	pass
25	V max.=4.2	23	0.0122340	pass
23	V min.= 3.5	26	0.0138298	pass

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

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