



FCC PART 22H, PART 24E MEASUREMENT AND TEST REPORT

For

ITALCOM GROUP

1728 Coral Way, Coral Gables, Miami, Florida, United States

FCC ID: YPVITALCOMMIO

Report Type: **Product Type:**

Mobile Phone Original Report

> leon then Test Engineer: Leon Chen

Report Number: RSZ111116003-00-22H&24E

Report Date: 2011-12-01

Merry Zhao

Reviewed By: EMC Engineer

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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. This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP*, or any agency of the Federal Government. * This report contains data that are not covered by the NVLAP accreditation and are marked with an asterisk "★" (Rev.2)

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *ITALCOM GROUP*'s product, model number: *MIO* (*FCC ID: YPVITALCOMMIO*) (the "EUT") in this report was a *Mobile Phone*, which was measured approximately: 11.0 cm (L) x 6.2 cm (W) x 1.2 cm (H), rated input voltage: DC 3.7V battery.

Report No.: RSZ111116003-00-22H&24E

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 (Bluetooth)

Transmitter Output Power:

Cellular Band: 33±2 dBm PCS Band: 30±2 dBm

Bluetooth: $-6 \sim +4 \text{ dBm}$ (maximum conducted output power = 3.46 dBm)

Objective

This report is prepared on behalf of *ITALCOM GROUP* 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, and spurious emission at antenna terminal, spurious radiated emission, frequency stability, band edge and radiated margin.

Related Submittal(s)/Grant(s)

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

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 ± 0.96 dB, the uncertainty of any radiation on emissions measurement is ± 4.0 dB

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^{*} All measurement and test data in this report was gathered from production sample serial number: 1111049 (Assigned by BACL, Shenzhen). The EUT was received on 2011-11-16.

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.

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 engineering mode.

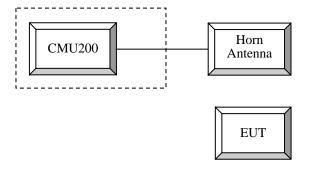
Equipment Modifications

No modifications were made to the EUT.

Local Support Equipment List and Details

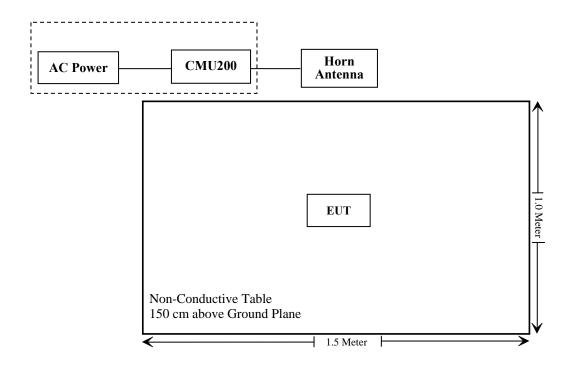
Manufacturer	Description	Model	Serial Number		
R & S	Universal Radio Communication Tester	CMU200	109038		

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	99% & 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	

Note: * Please refer to SAR report released by BACL, report number: RSZ111116003-20

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Report No.: RSZ111116003-00-22H&24E

FCC §1.1307 & §2.1093 - RF EXPOSURE

Applicable Standard

FCC§1.1307 and §2.1093.

Test Result

Compliance, please refer to the SAR report: RSZ111116003-20

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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.

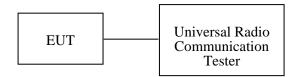
Report No.: RSZ111116003-00-22H&24E

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	Signal Analyzer	FSIQ 26	609358	2011-07-08	2012-07-07	
Sunol Sciences	Broadband Antenna	ntenna JB1 A040904-1		2011-07-05	2012-07-04	
Mini-Circuits	Amplifier	ZVA-213+	T-E27H	2011-03-08	2012-03-07	
HP	Signal Generator	HP8657A	2849U00982	2011-10-28	2012-10-27	
HP	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	

^{*} **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 Leon Chen on 2011-11-22.

Conducted Power

Cellular Band (Part 22H)

Mode	Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)
	128	824.2	31.58	38.45
GSM	190	836.6	31.45	38.45
	251	848.8	31.38	38.45

Mode	Channel Frequency		Output Power (dBm)				
		(MHz)	1 slot	2 slots	3 slots	4 slots	
GPRS	128	824.2	31.32	31.26	29.43	28.62	
	190	836.6	31.18	31.09	29.26	28.92	
	251	848.8	31.11	31.03	29.01	28.73	

PCS Band (Part 24E)

Mode	Channel Frequency (MHz)		Output Power (dBm)	Limit (dBm)
	512	1850.2	28.96	33
GSM	661	1880.0	29.18	33
	810	1909.8	29.35	33

Mode	Channel Frequency		Output Power (dBm)				
		(MHz)	1 slot	2 slots	3 slots	4 slots	
GPRS	512	1850.2	28.29	27.26	26.26	25.09	
	661	1880.0	28.44	27.67	26.15	25.94	
	810	1909.8	28.56	27.75	26.14	25.91	

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ERP & EIRP

ERP for Cellular Band (Part 22H)

GSM 850:

Indic	cated	d Table		ble Test Antenna		Substituted			ntenna 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)
	Low Channel										
824.2	98.49	326	2.1	Н	824.2	31.80	Н	0	1.35	30.45	38.45
824.2	100.08	316	1.5	V	824.2	28.40	V	0	1.35	27.05	38.45

EIRP for PCS Band (Part 24E)

PCS 1900:

	Indic	ated	Table Angle Degree	Test A	ntenna	Su	ıbstituted		Antenna	Cable	Absolute	Part 24E
	equency (MHz)	S.A. Reading (dBµV)		Height (m)	Polar (H/V)	Frequency (MHz)	S.G. Level (dBm)	Ant. Polar (H/V)	Gain Correction (dBi)	Loss (dB)	Level (dBm)	Limit (dBm)
	High Channel											
1	909.8	88.17	0	2.5	Н	1909.8	23.57	Н	8.7	2.45	29.82	33
1	909.8	87.17	0	2.5	V	1909.8	22.17	V	8.7	2.45	28.42	33

Note: all above data were tested with no amplifier.

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

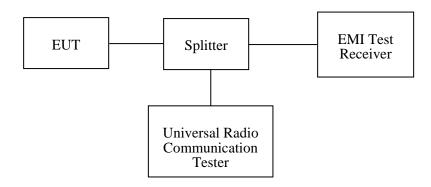
Applicable Standard

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 30 kHz (Cellular /PCS) and the 26 dB & 99% bandwidth was recorded.



Test Equipment List and Details

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

^{*} 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 Leon Chen on 2011-11-16.

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GMSK:

Cellular Band (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Occupied Bandwidth (kHz)
190	836.6	246.0000	314.0000

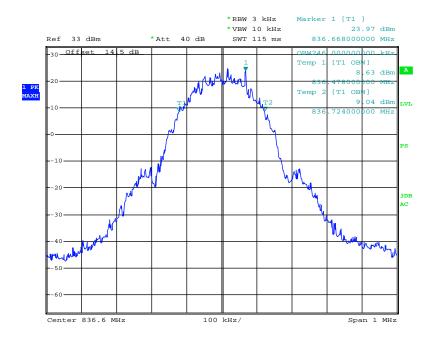
PCS Band (Part 24E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Occupied Bandwidth (kHz)
661	1880.0	246.0000	320.0000

Please refer to the following plots.

Cellular Band (Part 22H)

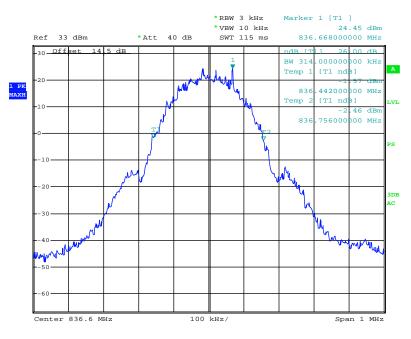
99% Occupied Bandwidth



Date: 16.NOV.2011 16:43:36

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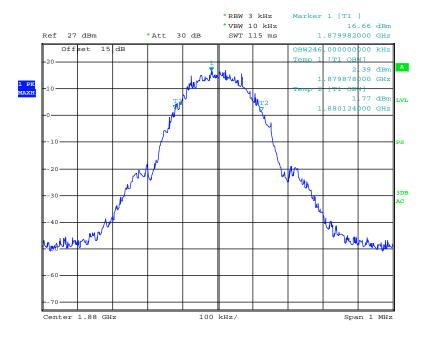
26 dB Bandwidth



Date: 16.NOV.2011 16:42:59

PCS Band (Part 24E)

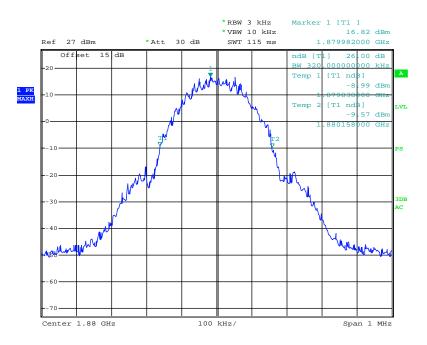
99% Occupied Bandwidth



Date: 16.NOV.2011 16:39:15

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26 dB Bandwidth



Date: 16.NOV.2011 16:38:27

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

Report No.: RSZ111116003-00-22H&24E

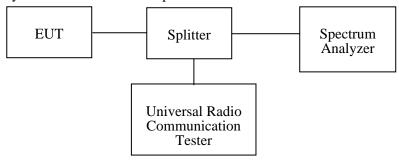
Applicable Standard

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^{th} harmonic.



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

^{*} **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

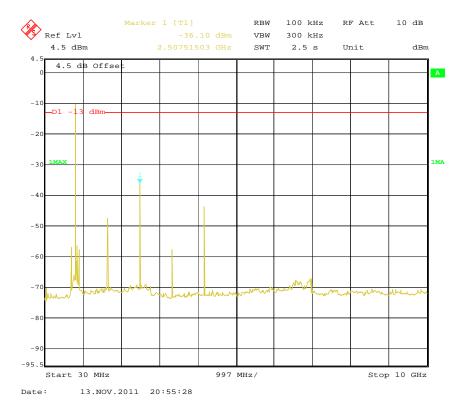
The testing was performed by Leon Chen on 2011-11-13.

Please refer to the following plots.

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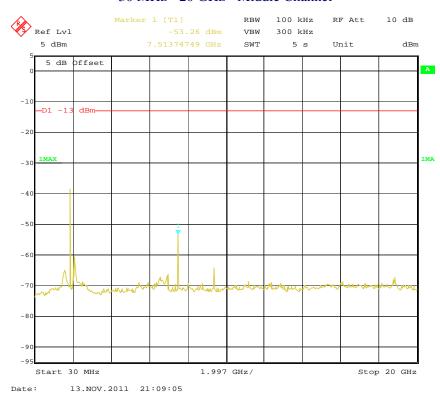
Cellular Band (Part 22H)

30 MHz-10 GHz - Middle Channel



PCS Band (Part 24E)

30 MHz - 20 GHz - Middle Channel



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

Report No.: RSZ111116003-00-22H&24E

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	Signal 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

^{*} 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 Leon Chen on 2011-11-16.

EUT Operation Mode: Transmitting

Cellular Band (Part 22H)

Above 1 GHz:

Indica	ted	Table Test Antenna Substituted						Absolute		_	
Frequency (MHz)	S.A. Reading (dBµV)	Angle	Height (m)	Polar (H/V)	Frequency (MHz)	Level (dBm)	Ant. Gain (dBi)	Cable Loss (dB)	Level (dBm)	Limit (dBm)	Margin (dB)
	Low Channel										
2472.6	65.73	37	1.4	V	2472.6	-36.50	7.4	1.16	-30.26	-13	17.26
2472.6	59.62	128	1.6	Н	2472.6	-38.80	7.4	1.16	-32.56	-13	19.56
1648.4	61.83	341	1.3	V	1648.4	-42.20	6.2	0.95	-36.95	-13	23.95
3296.8	53.15	196	1.3	V	3296.8	-43.80	6.9	1.35	-38.25	-13	25.25
1648.4	56.17	157	2.4	Н	1648.4	-45.30	6.2	0.95	-40.05	-13	27.05
3296.8	49.06	340	1.7	Н	3296.8	-46.80	6.9	1.35	-41.25	-13	28.25
4121.0	48.17	158	1.4	V	2141.0	-48.60	7.6	1.57	-42.57	-13	29.57
4121.0	44.32	26	1.6	Н	4121.0	-50.40	7.6	15.7	-58.50	-13	45.50

PCS Band (Part 24E)

Above 1 GHz:

Indica	ited	Table	Table Test Anten		Table Test Antenna Substituted					Absolute _		
Frequency (MHz)	S.A. Reading (dBµV)	Angle	Height (m)	Polar (H/V)	Frequency (MHz)	Level (dBm)	Ant. Gain (dBi)	Cable Loss (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	
	High Channel											
5729.4	56.82	137	1.6	V	5729.4	-37.40	8.3	1.76	-30.86	-13	17.86	
5729.4	53.79	190	1.8	Н	5729.4	-39.30	8.3	1.76	-32.76	-13	19.76	
3819.6	50.00	132	1.5	Н	3819.6	-44.50	7.1	1.50	-38.9	-13	25.90	
3819.6	47.17	287	1.1	V	3819.6	-47.00	7.1	1.50	-41.4	-13	28.40	

Note: For Below I GHz, all emissions are below 20 dB of the limit were not recorded.

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FCC §22.917(a) & §24.238(a) - BAND EDGES

Applicable Standard

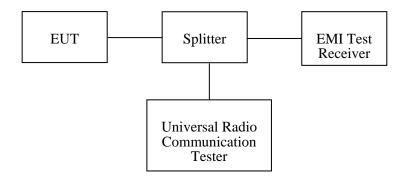
According to § 22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P) dB$.

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 10 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

^{*} 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 Leon Chen on 2011-11-16.

Please refer to the following tables and plots.

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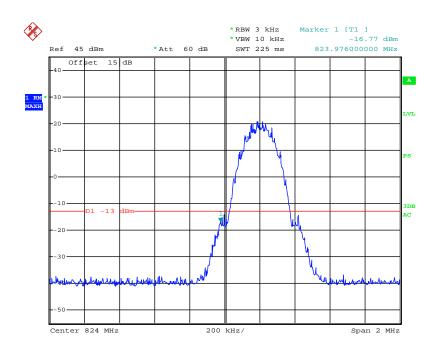
Cellular Band (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.976	-16.77	-13
849.020	-15.58	-13

PCS Band (Part 24E)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.996	-19.51	-13
1901.012	-18.76	-13

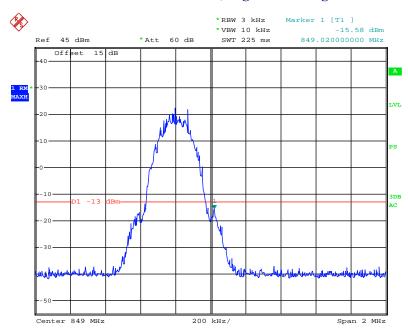
Cellular Band, Left Band Edge



Date: 16.NOV.2011 14:46:56

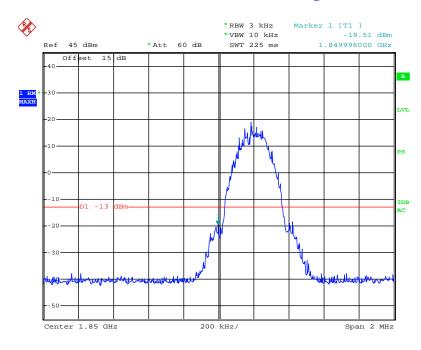
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Cellular Band, Right Band Edge



Date: 16.NOV.2011 14:47:52

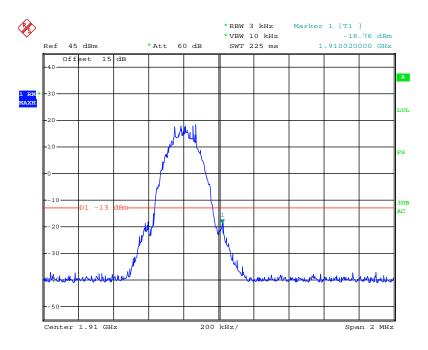
PCS Band, Left Band Edge



Date: 16.NOV.2011 14:44:17

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PCS Band, Right Band Edge



Date: 16.NOV.2011 14:43:00

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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:

Frequency	Tolerance for	r Transmitters	in the	Public	Mobile Services
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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

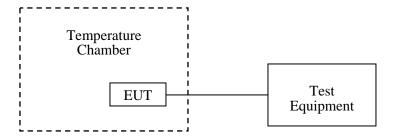
According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

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

^{*} **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 Leon Chen on 2011-11-16.

Cellular Band (Part 22H)

Middle Channel, f _o =836.6MHz					
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-30		-19	-0.0227	2.5	
-20		-22	-0.0263	2.5	
-10		-15	-0.0179	2.5	
0	3.7	-18	-0.0215	2.5	
10		-19	-0.0227	2.5	
20		-15	-0.0179	2.5	
30		-16	-0.0191	2.5	
40		-13	-0.0155	2.5	
50		-12	-0.0143	2.5	
25	V max.=4.2	-13	-0.0155	2.5	
23	V min.= 3.5	-12	-0.0143	2.5	

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PCS Band (Part 24E)

Middle Channel, f _o =1880.0MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Result
-30		-16	-0.0085	pass
-20		-18	-0.0096	pass
-10		-19	-0.0101	pass
0		-15	-0.0080	pass
10	3.7	-11	-0.0059	pass
20		-26	-0.0138	pass
30		-17	-0.0090	pass
40		-19	-0.0101	pass
50		-26	-0.0138	pass
25	V max.=4.2	-16	-0.0085	pass
25	V min.= 3.5	-19	-0.0101	pass

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

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