



FCC PART 22H, PART 24E TEST REPORT

For

Imobiile Technology, L.L.C

8227 NW 68 ST., MIAMI, FLORIDA 33166, USA

FCC ID: ZOTKOOL

Report Type: **Product Type:** Original Report Mobile Phone Eric Lee **Test Engineer:** Eric Lee Report Number: RSZ120109001-00A **Report Date:** 2012-02-28 Alvin Huang **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

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)

TABLE OF CONTENTS

GENERAL INFORMATION	4
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	
OBJECTIVE	
RELATED SUBMITTAL(S)/GRANT(S)	
TEST METHODOLOGY	
TEST FACILITY	
SYSTEM TEST CONFIGURATION	
DESCRIPTION OF TEST CONFIGURATION	
EQUIPMENT MODIFICATIONS	
CONFIGURATION OF TEST SETUP	
BLOCK DIAGRAM OF TEST SETUP	
SUMMARY OF TEST RESULTS	7
FCC §1.1307 & §2.1093 - RF EXPOSURE	8
APPLICABLE STANDARD	8
TEST RESULT	8
FCC §2.1047 - MODULATION CHARACTERISTIC	9
FCC § 2.1046, § 22.913 (A) & § 24.232 (C) - RF OUTPUT POWER	10
APPLICABLE STANDARD	
TEST PROCEDURE	
TEST FROCEDURE TEST EQUIPMENT LIST AND DETAILS.	
TEST DATA	
FCC §2.1049, §22.917, §22.905 & §24.238 - OCCUPIED BANDWIDTH	
APPLICABLE STANDARD	
TEST PROCEDURE	
TEST EQUIPMENT LIST AND DETAILS	
TEST DATA	13
FCC §2.1051, §22.917(A) & §24.238(A) - SPURIOUS EMISSIONS AT ANTENNA TERMINALS	
APPLICABLE STANDARD	
TEST PROCEDURE	
TEST EQUIPMENT LIST AND DETAILS.	
TEST DATA	17
FCC §2.1053, §22.917 & §24.238 - SPURIOUS RADIATED EMISSIONS	19
APPLICABLE STANDARD	19
Test Procedure	
TEST EQUIPMENT LIST AND DETAILS.	19
TEST DATA	20
FCC §22.917(A) & §24.238(A) - BAND EDGES	21
APPLICABLE STANDARD	21
TEST PROCEDURE	21
TEST EQUIPMENT LIST AND DETAILS	21
TEST DATA	21
FCC §2.1055, §22.355 & §24.235 - FREQUENCY STABILITY	25
APPLICABLE STANDARD	

Report No.: RSZ120109001-00A

Test Procedure	25
TEST EQUIPMENT LIST AND DETAILS.	26
Test Data	

Report No.: RSZ120109001-00A

FCC Part 22H/24E Page 3 of 27

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Imobiile Technology, L.L.C*'s product, model number: *KOOL (FCC ID: ZOTKOOL)* or the "EUT" in this report was a *Mobile Phone*, which was measured approximately: 10.38 cm (L) x 5.5 cm (W) x 1.345 cm (H), rated input voltage: DC 3.7 V battery.

Report No.: RSZ120109001-00A

* All measurement and test data in this report was gathered from production sample serial number: 1201015 (Assigned by BACL, Shenzhen). The EUT was received on 2012-01-09.

Objective

This test report is prepared on behalf of *Imobiile Technology*, *L.L.C* 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 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, band edge and radiated margin.

Related Submittal(s)/Grant(s)

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

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.

FCC Part 22H/24E Page 4 of 27

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.: RSZ120109001-00A

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

FCC Part 22H/24E Page 5 of 27

SYSTEM TEST CONFIGURATION

Description of Test Configuration

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.

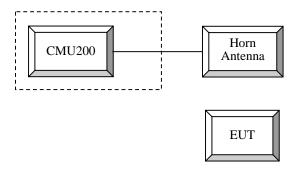
Report No.: RSZ120109001-00A

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

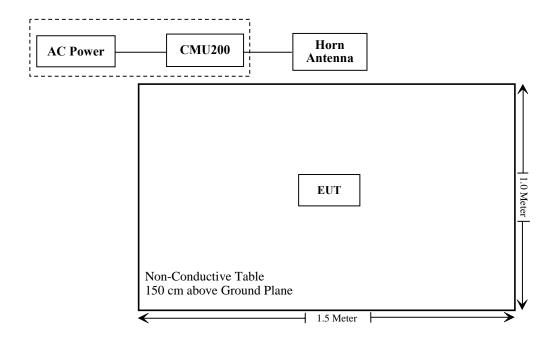
Equipment Modifications

No modifications were made to the EUT.

Configuration of Test Setup



Block Diagram of Test Setup



FCC Part 22H/24E Page 6 of 27

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	N/A
§ 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

Report No.: RSZ120109001-00A

Note: * Please refer to SAR report released by BACL, report number: RSZ120109001-20

FCC Part 22H/24E Page 7 of 27

FCC §1.1307 & §2.1093 - RF EXPOSURE

Report No.: RSZ120109001-00A

Applicable Standard

FCC§1.1307 and §2.1093.

Test Result

Compliance, please refer to the SAR report: RSZ120109001-20

FCC Part 22H/24E Page 8 of 27

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.

Report No.: RSZ120109001-00A

FCC Part 22H/24E Page 9 of 27

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.

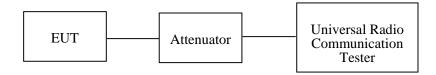
Report No.: RSZ120109001-00A

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	JB1	A040904-1	2011-07-05	2012-07-04
HP	Signal Generator	HP8657A	2849U00982	2011-10-28	2012-10-27
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
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	109038	2011-10-28	2012-10-27

^{*} 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.

FCC Part 22H/24E Page 10 of 27

Test Data

Environmental Conditions

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

The testing was performed by Eric Lee on 2012-01-31

Conducted Power

GSM

Band	Frequency	Conducted Output Power				
Danu	(MHz)	GSM (dBm)	GSM (W)			
	824.2	31.71	1.483			
Cellular	836.6	31.69	1.476			
	848.8	31.64	1.459			
	1850.2	29.11	0.815			
PCS	1880.0	29.10	0.813			
	1909.8	29.12	0.817			

Report No.: RSZ120109001-00A

GPRS

Band	Channel	Frequency		RF Output I	Power (dBm)	
Dallu	No.	(MHz)	1 slot	2 slot	3 slots	4 slots
	128	824.2	31.59	30.72	29.02	28.20
Cellular	190	836.6	31.43	30.69	29.04	28.12
	251	848.8	31.44	30.84	29.07	28.00
	512	1850.2	29.12	28.79	27.85	27.08
PCS	661	1880.0	29.09	28.43	27.52	26.77
	810	1909.8	29.04	28.17	27.23	26.51

FCC Part 22H/24E Page 11 of 27

Radiated Power:

GSM Mode:

ERP for Cellular Band (Part 22H)

Report No.: RSZ120109001-00A

Indic	cated	Table	Test A	ntenna	Sı	ıbstituted		Antenna	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 C	hannel					
824.2	86.28	139	1.9	Н	824.2	21.6	Н	0	0.9	20.7	38.45
824.2	94.86	140	1.9	V	824.2	30.1	V	0	0.9	29.2	38.45
					Middle (Channel					
836.6	85.48	139	1.9	Н	836.6	20.8	Н	0	0.9	19.9	38.45
836.6	94.21	140	1.9	V	836.6	29.6	V	0	0.9	28.7	38.45
	High Channel										
848.8	85.74	139	1.9	Н	848.8	21.0	Н	0	0.9	20.1	38.45
848.8	94.06	140	1.9	V	848.8	29.8	V	0	0.9	28.9	38.45

EIRP for PCS Band (Part 24E)

Indic	ated	Table	Test A	ntenna	Sı	ıbstituted		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 C	hannel					
1850.2	86.64	161	2.5	Н	1850.2	13.9	Н	6.2	1.1	19.0	33
1850.2	94.43	304	1.0	V	1850.2	23.8	V	6.2	1.1	28.9	33
					Middle (Channel					
1880	88.66	106	2.5	Н	1880	15.9	Н	6.2	1.1	21.0	33
1880	93.94	314	1.0	V	1880	23.3	V	6.2	1.1	28.4	33
	High Channel										
1909.8	85.18	263	2.5	Н	1909.8	12.5	Н	6.2	1.1	17.6	33
1909.8	93.78	254	1.0	V	1909.8	23.2	V	6.2	1.1	28.3	33

FCC Part 22H/24E Page 12 of 27

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

Report No.: RSZ120109001-00A

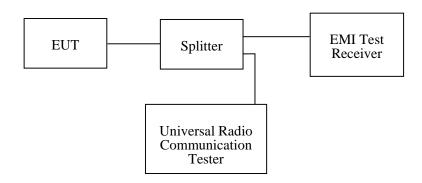
Applicable Standard

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 & 99% bandwidth was recorded.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	
Rohde & Schwarz	Spectrum Analyzer	ESCI	100035	2011-11-11	2012-11-11	
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	109038	2011-10-28	2012-10-27	

^{*} 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 Eric Lee on 2012-01-31

FCC Part 22H/24E Page 13 of 27

GMSK Modulation:

Cellular Band (Part 22H)

Report No.: RSZ120109001-00A

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Occupied Bandwidth (kHz)
190	836.6	244	312

PCS Band (Part 24E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Occupied Bandwidth (kHz)
661	1880.0	244	318

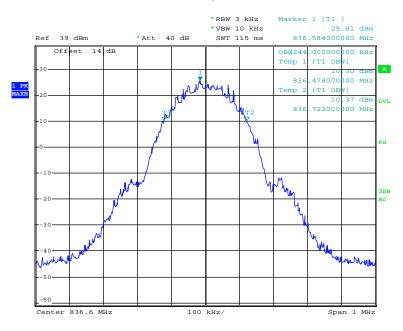
Please refer to the following plots.

FCC Part 22H/24E Page 14 of 27

Cellular Band (Part 22H)

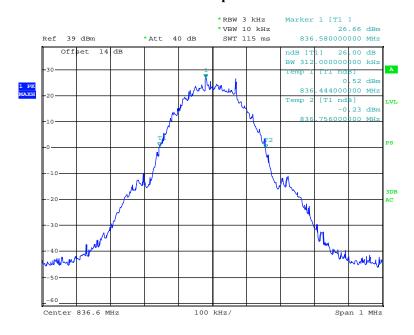
99% Occupied Bandwidth

Report No.: RSZ120109001-00A



Date: 31.JAN.2012 14:21:13

26 dB Occupied Bandwidth



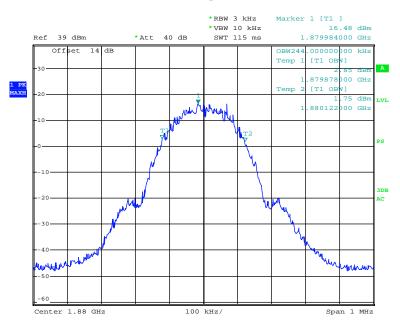
Date: 31.JAN.2012 14:19:56

FCC Part 22H/24E Page 15 of 27

PCS Band (Part 24E)

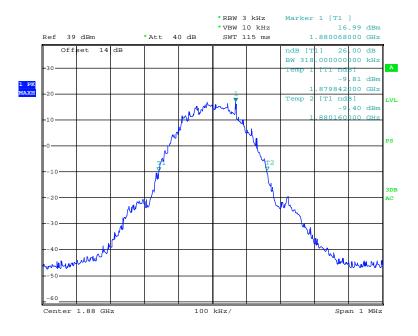
99% Occupied Bandwidth

Report No.: RSZ120109001-00A



Date: 31.JAN.2012 14:40:07

26 dB Occupied Bandwidth



Date: 31.JAN.2012 14:39:13

FCC Part 22H/24E Page 16 of 27

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

Report No.: RSZ120109001-00A

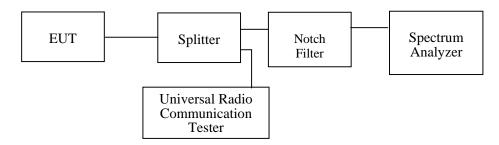
Applicable Standard

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 10th harmonic.



Test Equipment List and Details

Manufacturer	Description	Description Model Seria		Calibration Date	Calibration Due Date
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	109038	2011-10-28	2012-10-27
Wainwright Germany	Band Reject Filter	WRCG1850/1910- 1835/1925-40/8SS	22	2011-02-28	2012-02-28
Wainwright Germany	Band Reject Filter	WRCG823/850- 813/860-40/8SS	7	2011-02-28	2012-02-28
Rohde & Schwarz	Spectrum Analyzer	FSIQ26	849720/019	2011-07-08	2012-07-07

^{*} 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 Eric Lee on 2012-02-06.

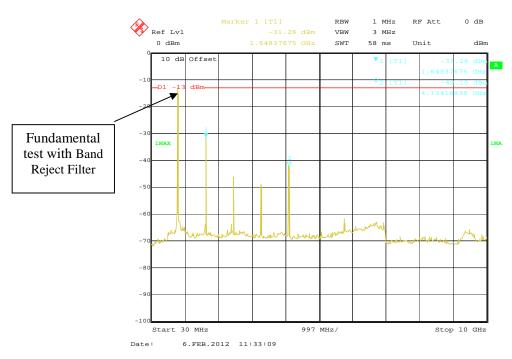
Please refer to the following plots.

FCC Part 22H/24E Page 17 of 27

Cellular Band (Part 22H)

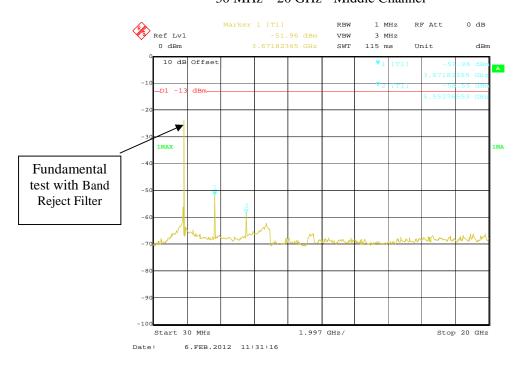
$30\ MHz-10\ GHz$ - Middle Channel

Report No.: RSZ120109001-00A



PCS Band (Part 24E)

30 MHz – 20 GHz - Middle Channel



FCC Part 22H/24E Page 18 of 27

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

Report No.: RSZ120109001-00A

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 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	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
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
Electro-Mechanics	Horn antenna	3116	9510-2270	2011-10-11	2012-11-10
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	109038	2011-10-28	2012-10-27

^{*} 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.

FCC Part 22H/24E Page 19 of 27

Test Data

Environmental Conditions

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

The testing was performed by Eric Lee on 2012-01-31

Test mode: Transmitting (worst case)

30 MHz ~10 GHz:

Cellular Band (Part 22H)

Report No.: RSZ120109001-00A

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 (dB)	Cable Loss (dB)	Level (dBm)	Limit (dBm)	Margin (dB)
Low Channel											
1648.4	61.79	136	1.4	V	1648.4	-39.7	6.2	0.95	-34.45	-13	21.45
2472.6	56.80	61	1.4	V	2472.6	-40.9	7.4	1.16	-34.66	-13	21.66
1648.4	61.33	152	1.6	Н	1648.4	-43.0	6.2	0.95	-37.75	-13	24.75
2472.6	55.03	68	1.7	Н	2472.6	-46.3	7.4	1.16	-40.06	-13	27.06
3296.8	42.08	235	1.6	V	3296.8	-53.7	6.9	1.35	-48.15	-13	35.15
3296.8	40.89	205	1.5	Н	3296.8	-56.6	6.9	1.35	-51.05	-13	38.05

30 MHz ~20 GHz:

PCS Band (Part 24E)

Indica	ted	Table	Test A	ntenna		Substitu	ted		Absolute		
Frequency (MHz)	S.A. Reading (dBµV)	Angle	Height (m)	Polar (H/V)	Frequency (MHz)	Level (dBm)	Ant. Gain (dB)	Cable Loss (dB)	Level (dBm)	Limit (dBm)	Margin (dB)
	Low Channel										
7400.8	43.52	58	1.5	Н	7400.8	-46.1	7.80	2.07	-40.37	-13	27.37
5550.6	44.23	202	1.4	V	5550.6	-47.4	8.30	1.77	-40.87	-13	27.87
7400.8	42.96	185	1.7	V	7400.8	-47.4	7.80	2.07	-41.67	-13	28.67
5550.6	43.92	321	1.5	Н	5550.6	-49.4	8.30	1.77	-42.87	-13	29.87
3700.4	38.58	132	1.5	V	3700.4	-52.4	7.10	1.44	-46.74	-13	33.74
3700.4	39.39	125	1.2	Н	3700.4	-55.9	7.10	1.44	-50.24	-13	37.24

FCC Part 22H/24E Page 20 of 27

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 $43 + 10 \log(P) dB$.

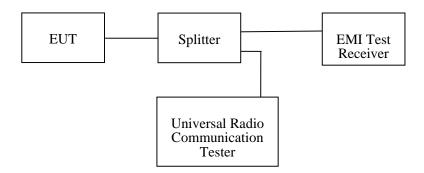
Report No.: RSZ120109001-00A

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	Spectrum Analyzer	ESCI	100035	2011-11-11	2012-11-11
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	109038	2011-10-28	2012-10-27

^{*} 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 Eric Lee on 2012-01-31

FCC Part 22H/24E Page 21 of 27

Please refer to the following tables and plots.

Cellular Band (Part 22H)

Report No.: RSZ120109001-00A

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.982	-13.50	<-13
849.010	-14.62	<-13

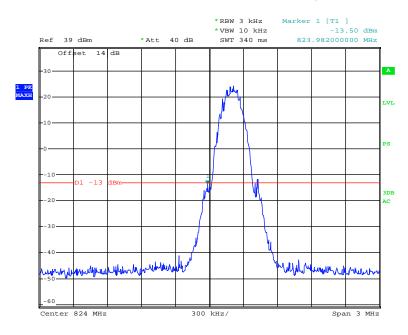
PCS Band (Part 24E)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1850.000	-14.94	<-13
1910.024	-20.71	<-13

FCC Part 22H/24E Page 22 of 27

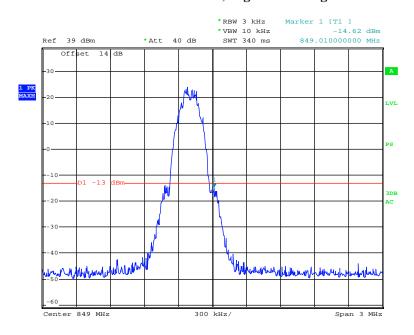
Cellular Band, Left Band Edge

Report No.: RSZ120109001-00A



Date: 31.JAN.2012 14:11:27

Cellular Band, Right Band Edge

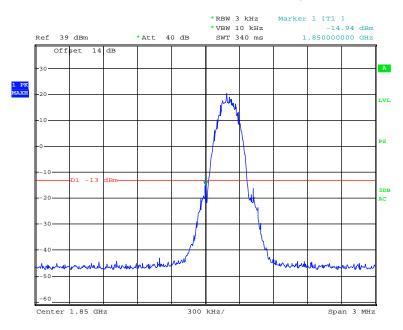


Date: 31.JAN.2012 14:13:52

FCC Part 22H/24E Page 23 of 27

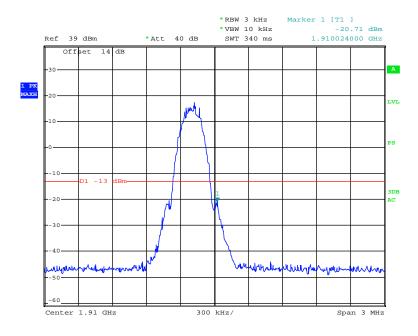
PCS Band, Left Band Edge

Report No.: RSZ120109001-00A



Date: 31.JAN.2012 14:35:33

PCS Band, Right Band Edge



Date: 31.JAN.2012 14:37:29

FCC Part 22H/24E Page 24 of 27

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 Tolera	maa fan Tust	. amaittana im	the Dublie	Mobile Comi	
Freduency Loiera	nce for frai	isimillers in	the Public	wiodile Servi	ces

Report No.: RSZ120109001-00A

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

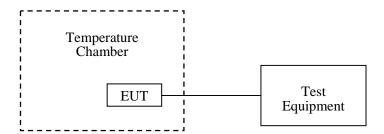
According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

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.



FCC Part 22H/24E Page 25 of 27

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	2011-10-28	2012-10-27

Report No.: RSZ120109001-00A

Test Data

Environmental Conditions

Temperature:	20 °C
Relative Humidity:	56 %
ATM Pressure:	100.0kPa

The testing was performed by Eric Lee on 2012-01-31

Cellular Band (Part 22H)

Middle Channel, f _o =836.6MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50		-9	-0.01076	2.5
40		-3	-0.00359	2.5
30		-9	-0.01076	2.5
20		-7	-0.00837	2.5
10	3.7	-6	-0.00717	2.5
0		-11	-0.01315	2.5
-10		-9	-0.01076	2.5
-20		-8	-0.00956	2.5
-30		-9	-0.01076	2.5
20	3.6	-9	-0.01076	2.5
20	3.5	-8	-0.00956	2.5

FCC Part 22H/24E Page 26 of 27

^{*} **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.

PCS Band (Part 24E)

Report No.: RSZ120109001-00A

Middle Channel, f _o =1880.0 MHz				
Temperature (℃)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Result
50		-12	-0.00638	Pass
40		-13	-0.00691	Pass
30		-13	-0.00691	Pass
20		-12	-0.00638	Pass
10	3.7	-11	-0.00585	Pass
0		-9	-0.00479	Pass
-10		-13	-0.00691	Pass
-20		-5	-0.00266	Pass
-30		-11	-0.00585	Pass
20	3.6	-13	-0.00691	Pass
20	3.5	-7	-0.00372	Pass

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

FCC Part 22H/24E Page 27 of 27