



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

For

Verykool USA Inc

4350 Executive Dr. #100, San Diego, CA 92121, United States

FCC ID: WA61605

Report Type: Product Type:
Original Report GSM Mobile Phone

Test Engineer: Henry Ding

Report Number: RSZ120104002-00C

Report Date: 2012-02-29

Alvin Huang

Reviewed By: EMC Engineer

Bay Area Compliance Laboratories Corp. (Shenzhen)

Henry . Viney

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

Test Laboratory: 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)	
RELATED SUBMITTAL(S)/GRANT(S)	
TEST METHODOLOGY	4
TEST FACILITY	5
SYSTEM TEST CONFIGURATION	
JUSTIFICATION	
EQUIPMENT MODIFICATIONS	6
BLOCK DIAGRAM OF TEST SETUP	6
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) & § 24.232 (C) - RF OUTPUT POWER	10
APPLICABLE STANDARD	
TEST PROCEDURE	
TEST EQUIPMENT LIST AND DETAILS.	
TEST DATA	
FCC §2.1049, §22.917, §22.905 & §24.238 - OCCUPIED BANDWIDTH	13
APPLICABLE STANDARD	
TEST PROCEDURE	
TEST EQUIPMENT LIST AND DETAILS	
FCC §2.1051, §22.917(A) & §24.238(A) - SPURIOUS EMISSIONS AT ANTENNA TERMINALS	
Applicable Standard	
TEST FROCEDURE TEST EQUIPMENT LIST AND DETAILS.	
TEST DATA	
FCC §2.1053, §22.917 & §24.238 - SPURIOUS RADIATED EMISSIONS	19
APPLICABLE STANDARD	19
Test Procedure	
TEST EQUIPMENT LIST AND DETAILS.	
Test Data	
FCC §22.917(A) & §24.238(A) - BAND EDGES	
APPLICABLE STANDARD	
TEST PROCEDURE	
TEST DATA	
FCC §2.1055, §22.355 & §24.235 - FREQUENCY STABILITY	
Applicable Standard	23

Bay	Area	Compliance	Laboratories	Corp.	(Shenzhen
-----	------	------------	--------------	-------	-----------

Test Procedure	25
TEST EQUIPMENT LIST AND DETAILS	
TEST DATA	

Report No.: RSZ120104002-00C

FCC Part 22H/24E Page 3 of 27

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Verykool USA INC*.'s product, model number: *I605 (FCC ID: WA6I605)* (the "EUT") in this report was a *GSM Mobile Phone*, which was measured approximately: 10.0 cm (L) x 5.5 cm (W) x 1.5 cm (H), rated input voltage: DC 3.7V Lithium battery.

Report No.: RSZ120104002-00C

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: 32.31dBm (Conducted output power) PCS Band: 29.56dBm (Conducted output power) Bluetooth: 5.07dBm (Conducted output power)

Note: the series product, model 1605 and 1604 are electrically identical, only different in model number, and model 1605 was selected for fully testing by BACL, which was explained in the attached declaration.

* All measurement and test data in this report was gathered from production sample serial number: 1201002 (Assigned by BACL, Shenzhen). The EUT was received on 2012-01-04.

Objective

This report is prepared on behalf of *Verykool USA INC*. 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 Part 15B JBP submission with FCC ID: WA6I605.

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

FCC Part 22H/24E Page 4 of 27

Test Facility

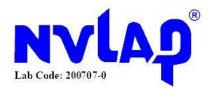
The Test site used by Bay Area Compliance Laboratories Corp.(Shenzhen) to collect test data is located on the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Report No.: RSZ120104002-00C

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

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

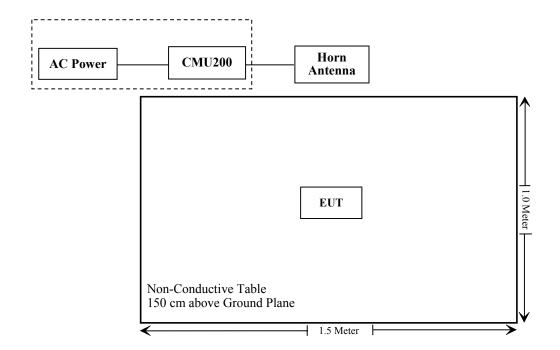
No modification was made to the EUT.

Support Equipment List and Details

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

Report No.: RSZ120104002-00C

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	Not Applicable
§ 2.1049; § 22.905 § 22.917; § 24.238	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.: RSZ120104002-00C

Note: * Please refer to SAR report released by BACL, report number: RSZ120104002-20.

FCC Part 22H/24E Page 7 of 27

FCC §1.1307 & §2.1093 - RF EXPOSURE

Report No.: RSZ120104002-00C

Applicable Standard

FCC§1.1307 and §2.1093.

Test Result

Compliance, please refer to the SAR report: RSZ120104002-20.

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.: RSZ120104002-00C

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.: RSZ120104002-00C

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
Mini-Circuits	Amplifier	ZVA-213+	Т-Е27Н	2011-03-08	2012-03-07
HP	Signal Generator	HP8657A	2849U00982	2011-10-28	2012-10-27
HP	Amplifier	HP8447D	2944A09795	2011-08-02	2012-08-01
HP	Synthesized Sweeper	8341B	2624A00116	2011-11-07	2012-11-06
COM POWER	Dipole Antenna	AD-100	041000	2011-09-25	2012-09-24
A.H. System	Horn Antenna	SAS-200/571	135	2011-05-17	2012-05-16
the electro- Mechanics Co.	Horn Antenna	3116	9510-2270	2011-05-05	2012-05-04

^{*} 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 Henry Ding on 2012-01-16.

Conducted Power

Cellular Band (Part 22H)

Report No.: RSZ120104002-00C

Mode	Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)
GSM	128	824.2	31.14	38.45
	190	836.6	31.11	38.45
	251	848.8	31.09	38.45

Mode	Channel	Frequency	Output Power (dBm)			
		(MHz)	1 slot	2 slots	3 slots	4 slots
GPRS	128	824.2	31.02	30.79	29.91	29.11
	190	836.6	31.00	30.76	29.84	29.10
	251	848.8	30.96	30.74	29.87	29.09

PCS Band (Part 24E)

Mode	Channel Frequency (MHz)		Output Power (dBm)	Limit (dBm)	
	512	1850.2	28.70	33	
GSM	661	1880.0	28.72	33	
	810	1909.8	28.76	33	

Mode	Channel	Frequency	Output Power (dBm)			
		(MHz)	1 slot	2 slots	3 slots	4 slots
GPRS	512	1850.2	28.59	27.61	25.71	24.86
	661	1880.0	28.64	27.64	25.82	24.96
	810	1909.8	28.68	27.80	26.01	25.18

FCC Part 22H/24E Page 11 of 27

ERP & EIRP

ERP for Cellular Band (Part 22H)

Report No.: RSZ120104002-00C

GSM Mode

Indic	cated	Table	Test A	ntenna	Cable Al		Substituted		Substituted		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	85.41	139	1.9	Н	824.2	18.9	Н	0	0.9	18.0	38.45	
824.2	93.24	140	1.9	V	824.2	27.7	V	0	0.9	26.8	38.45	
					Middle (Channel						
836.6	85.12	139	1.9	Н	836.6	18.6	Н	0	0.9	17.7	38.45	
836.6	93.26	140	1.9	V	836.6	27.8	V	0	0.9	26.9	38.45	
	High Channel											
848.8	86.53	139	1.9	Н	848.8	20.0	Н	0	0.9	19.1	38.45	
848.8	95.14	140	1.9	V	848.8	29.6	V	0	0.9	28.7	38.45	

EIRP for PCS Band (Part 24E)

GSM Mode

Indic	ated	Table	Test A	ntenna	Su	bstituted		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	84.33	161	2.5	Н	1850.2	17.7	Н	6.2	1.1	22.8	33
1850.2	87.64	304	1.0	V	1850.2	21.1	V	6.2	1.1	26.2	33
					Middle (Channel					
1880	82.45	106	2.5	Н	1880	15.9	Н	6.2	1.1	21.0	33
1880	87.63	314	1.0	V	1880	21.1	V	6.2	1.1	26.2	33
	High Channel										_
1909.8	82.50	263	2.5	Н	1909.8	15.9	Н	6.2	1.1	21.0	33
1909.8	87.95	254	1.0	V	1909.8	21.5	V	6.2	1.1	26.6	33

FCC Part 22H/24E Page 12 of 27

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

Report No.: RSZ120104002-00C

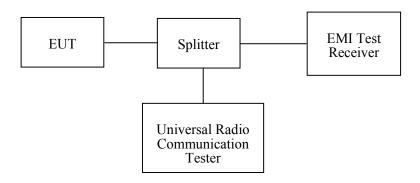
Applicable Standard

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	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 Henry Ding on 2012-01-10.

FCC Part 22H/24E Page 13 of 27

Please refer to the following tables and plots.

Cellular Band (Part 22H)

Report No.: RSZ120104002-00C

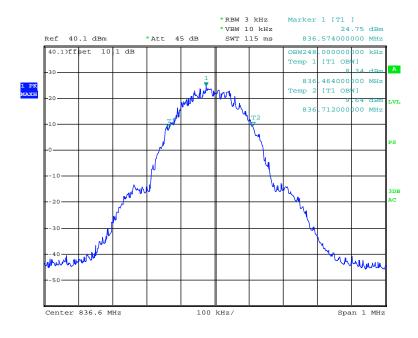
Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Occupied Bandwidth (kHz)
190	836.6	248.00	300.00

PCS Band (Part 24E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Occupied Bandwidth (kHz)
661	1880.0	246.00	300.00

Cellular Band (Part 22H)

99% Occupied Bandwidth

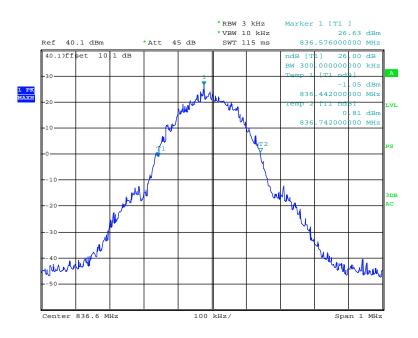


Date: 10.JAN.2012 09:50:15

FCC Part 22H/24E Page 14 of 27

26 dB Bandwidth

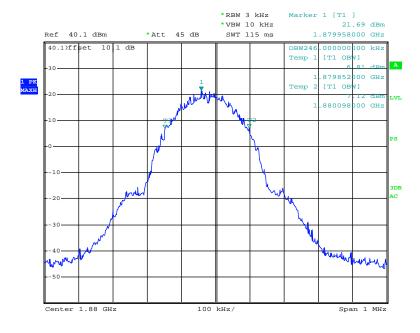
Report No.: RSZ120104002-00C



Date: 10.JAN.2012 09:50:42

PCS Band (Part 24E)

99% Occupied Bandwidth

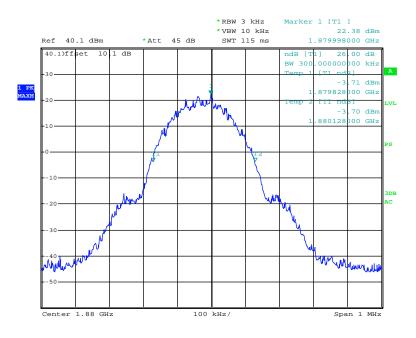


Date: 10.JAN.2012 09:55:38

FCC Part 22H/24E Page 15 of 27

26 dB Bandwidth

Report No.: RSZ120104002-00C



Date: 10.JAN.2012 09:53:56

FCC Part 22H/24E Page 16 of 27

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

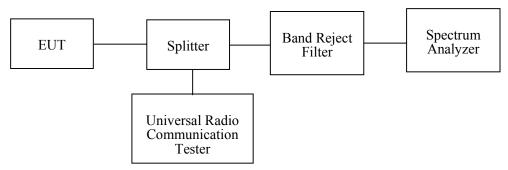
Applicable Standard

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.



Report No.: RSZ120104002-00C

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	Signal Analyzer	FSIQ 26	609358	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 Henry Ding on 2012-01-10 and 2012-01-31.

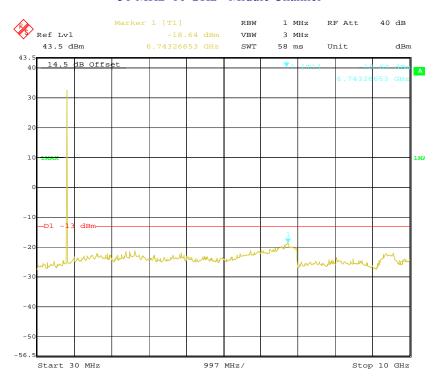
Please refer to the following plots.

FCC Part 22H/24E Page 17 of 27

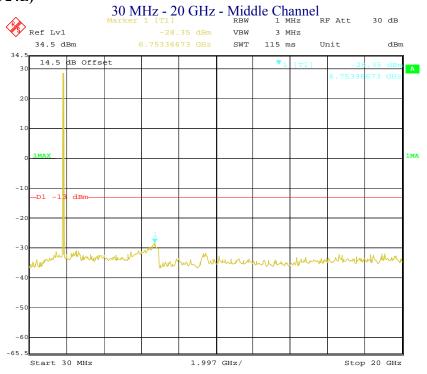
Cellular Band (Part 22H)

30 MHz-10 GHz - Middle Channel

Report No.: RSZ120104002-00C



PCS Band (Part 24E)



FCC Part 22H/24E Page 18 of 27

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

Report No.: RSZ120104002-00C

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+	Т-Е27Н	2011-03-08	2012-03-07
НР	Signal Generator	HP8657A	2849U00982	2011-10-28	2012-10-27
НР	Amplifier	HP8447D	2944A09795	2011-08-02	2012-08-01
HP	Synthesized Sweeper	8341B	2624A00116	2011-11-07	2012-11-06
COM POWER	Dipole Antenna	AD-100	041000	2011-09-25	2012-09-24
A.H. System	Horn Antenna	SAS-200/571	135	2011-05-17	2012-05-16
Electro-Mechanics	Horn Antenna	3116	9510-2270	2011-10-11	2012-10-10

^{*} 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.

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 Henry Ding on 2012-01-16.

EUT Operation Mode: Transmitting

Cellular Band (Part 22H)

Report No.: RSZ120104002-00C

30 MHz-10 GHz: Worst case at high channel

Indica	ted	Table	Test Aı	ıtenna		Substitu	ted		Absolute	Limit	
Frequency (MHz)	S.A. Reading (dBµV)	Angle	Height (m)	Polar (H/V)	Frequency (MHz)	Level (dBm)	Ant. Gain (dB)	Cable Loss (dB)	Level (dBm)	(dRm)	
1697.6	56.26	160	2.3	Н	1697.6	-44.8	7.4	1.16	-38.56	-13	25.56
1697.6	59.60	320	1.6	V	1697.6	-45.6	7.4	1.16	-39.36	-13	26.36
2546.4	52.07	180	1.1	Н	2546.4	-47.8	6.9	1.35	-42.25	-13	29.25
2546.4	54.92	140	2.1	V	2546.4	-50.4	6.9	1.35	-44.85	-13	31.85
1896.89	47.62	140	1.5	V	1896.89	-50.4	6.2	0.95	-45.15	-13	32.15
1896.89.	46.31	250	1.4	Н	1896.89.	-57.5	6.2	0.95	-52.25	-13	39.25

PCS Band (Part 24E)

30 MHz-20 GHz: Worst case at high channel

Indica	ited	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)
3819.6	46.88	360	1.9	V	3819.6	-36.7	6.7	1.50	-31.50	-13	18.50
7639.2	46.81	260	1.9	Н	7639.2	-38.1	7.8	2.07	-32.37	-13	19.37
3819.6	43.62	170	1.7	Н	3819.6	-39.2	6.7	1.50	-34.00	-13	21.00
5729.4	50.60	180	2.4	Н	5729.4	-43.7	8.3	1.77	-37.17	-13	24.17
7639.2	44.13	170	1.5	V	7639.2	-43.2	7.8	2.07	-37.47	-13	24.47
5729.4	52.18	240	2.5	V	5729.4	-44.9	8.3	1.77	-38.37	-13	25.37

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.

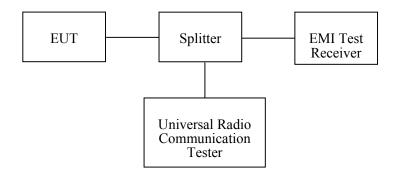
Report No.: RSZ120104002-00C

According to $\S24.238(a)$, 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	

^{*} 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 Henry Ding on 2012-01-10.

Please refer to the following tables and plots.

FCC Part 22H/24E Page 21 of 27

Cellular Band (Part 22H)

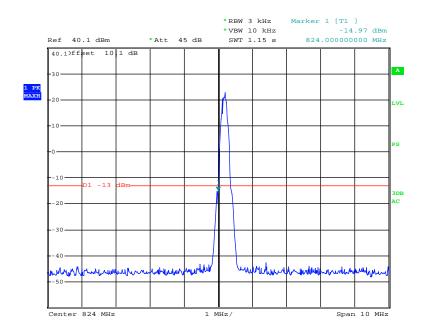
Report No.: RSZ120104002-00C

Frequency (MHz)	Emission (dBm)	Limit (dBm)
824.000	-14.97	-13
849.000	-16.00	-13

PCS Band (Part 24E)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1850.000	-13.17	-13
1910.000	-15.27	-13

Cellular Band, Left Band Edge

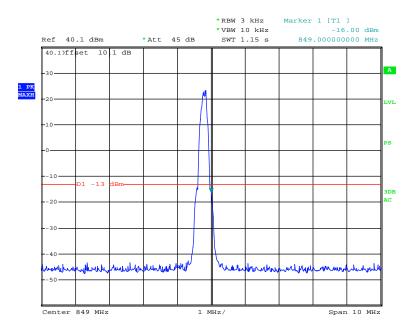


Date: 10.JAN.2012 10:17:49

FCC Part 22H/24E Page 22 of 27

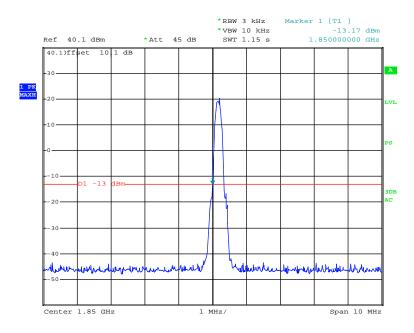
Cellular Band, Right Band Edge

Report No.: RSZ120104002-00C



Date: 10.JAN.2012 10:16:44

PCS Band, Left Band Edge

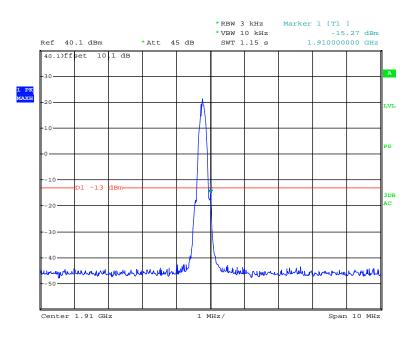


Date: 10.JAN.2012 10:20:03

FCC Part 22H/24E Page 23 of 27

PCS Band, Right Band Edge

Report No.: RSZ120104002-00C



Date: 10.JAN.2012 10:21:56

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 Tolerance for Transmitters in the Publ	i wiodile service	SS.

Report No.: RSZ120104002-00C

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

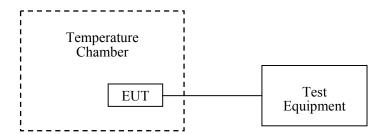
According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

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.: RSZ120104002-00C

Test Data

Environmental Conditions

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

The testing was performed by Henry Ding on 2012-01-16.

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		-30	-0.0359	2.5
-20		-26	-0.0311	2.5
-10		-22	-0.0263	2.5
0		-16	-0.0191	2.5
10	3.7	-20	-0.0239	2.5
20		-13	-0.0155	2.5
30		-15	-0.0179	2.5
40		-12	-0.0143	2.5
50		-6	-0.0072	2.5
25	3.6	-7	-0.0084	2.5
25	V min.= 3.5	-26	-0.0311	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)

Middle Channel, f _o =1880.0MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Result
-30		-15	-0.0080	pass
-20		-12	-0.0064	pass
-10		-10	-0.0053	pass
0		-11	-0.0059	pass
10	3.7	-9	-0.0048	pass
20		-12	-0.0064	pass
30		-7	-0.0037	pass
40		-8	-0.0043	pass
50		-6	-0.0032	pass
25	3.6	-9	-0.0048	pass
25	V min.= 3.5	-12	-0.0064	pass

Report No.: RSZ120104002-00C

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

FCC Part 22H/24E Page 27 of 27