

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

For

## Cloud Bridge S.A. DE C.V.

Autopista Mexico Queretaro 3063, Local 18, San Andres Atenco Tlalnepantla 54040 Mexico

FCC ID: 2AHNRFFM351

Report Type: **Product Type:** Original Report 3G Mobile phone Costa day Test Engineer: Costa Dong Report Number: RSZ160307001-00D **Report Date:** 2016-03-23 Dean Liu RF Engineer **Reviewed By: Test Laboratory:** Bay Area Compliance Laboratories Corp. (Dongguan) No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China Tel: +86-769-86858888 Fax: +86-769-86858891 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. (Dongguan).

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#### **GENERAL INFORMATION**

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

The *Cloud Bridge S.A. DE C.V.*'s product, model number: *M351(FCC ID*: 2AHNRFFM351) (the "EUT") in this report was a *3G Mobile phone*, which was measured approximately: 11.60 cm (L) x 6.22cm (W) x1.20 cm (H), rated input voltage: DC3.7V rechargeable Li-ion battery or DC5V charging from adapter.

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Adapter information: Model: Power Adapter

Input: AC100-240V, 50/60 Hz, 0.15A

Output: DC5.0V, 700mA

Note: The series product, models M351, Cloud Bridge M351, FreshFun M351 are electrically identical, the differences between them is model name, we selected M351 for fully testing, the details was explained in the attached declaration letter.

All measurement and test data in this report was gathered from production sample serial number: 1600307001 (Assigned by BACL, Dongguan). The EUT was received on 2016-03-09.

#### **Objective**

This report is prepared on behalf of *Cloud Bridge S.A. DE C.V.* in accordance with: Part 2-Subpart J, Part 22-Subpart H, and Part 24-Subpart E of the Federal Communications Commission's rules.

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

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

FCC Part 15B JBP submissions with FCC ID: 2AHNRFFM351. FCC Part 15C DSS submissions with FCC ID: 2AHNRFFM351. FCC Part 15C DTS submissions with FCC ID: 2AHNRFFM351.

#### **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-D-2010.

All radiated and conducted emissions measurements were performed at Bay Area Compliance Laboratories Corp.(Dongguan).

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#### **Test Facility**

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

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Test site at Bay Area Compliance Laboratories Corp. (Dongguan) has been fully described in reports submitted to the Federal Communications 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 February 06, 2015.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

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#### SYSTEM TEST CONFIGURATION

#### Justification

The EUT was configured for testing according to TIA/EIA-603-D-2010.

The test items were performed with the EUT operating at testing mode.

#### **Equipment Modifications**

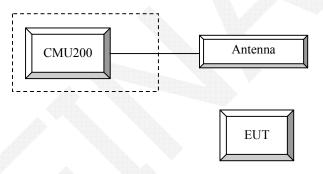
No modification was made to the EUT.

#### **Support Equipment List and Details**

Manufacturer	Description	Model	Serial Number
R&S	Universial Radio Communication Tester	CMU200	109 038

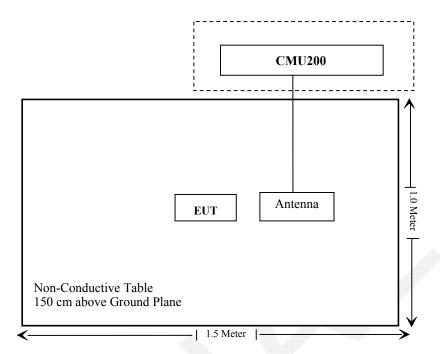
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#### **Configuration of Test Setup**



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## **Block Diagram of Test Setup**



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## SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result	
§1.1310, §2.1093	RF Exposure	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	

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## FCC §1.1310 & §2.1093- RF EXPOSURE

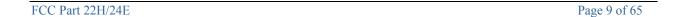
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## **Applicable Standard**

FCC§1.1310 and §2.1093.

#### **Test Result**

Compliant, please refer to the SAR report: RSZ160307001-20.



## 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.

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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.

According to §24.232 (d) Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of §24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

#### **Test Procedure**

#### GSM/GPRS/EGPRS

Function: Menu select > GSM Mobile Station > GSM 850/1900

Press Connection control to choose the different menus

Press RESET > choose all the reset all settings

Connection Press Signal Off to turn off the signal and change settings

Network Support > GSM + GPRS or GSM + EGSM

Main Service > Packet Data

Service selection > Test Mode A – Auto Slot Config. off

MS Signal Press Slot Config Bottom on the right twice to select and change the number of time slots and power setting

> Slot configuration > Uplink/Gamma

> 33 dBm for GPRS 850

> 30 dBm for GPRS 1900

> 27 dBm for EGPRS 850

> 26 dBm for EGPRS 1900

BS Signal Enter the same channel number for TCH channel (test channel) and BCCH channel

Frequency Offset > + 0 Hz

Mode > BCCH and TCH

BCCH Level > -85 dBm (May need to adjust if link is not stable)

BCCH Channel > choose desire test channel [Enter the same channel number for TCH channel (test

channel) and BCCH channel]

Channel Type > Off

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P0 > 4 dB

Slot Config > Unchanged (if already set under MS signal)

TCH > choose desired test channel

Hopping > Off Main Timeslot > 3

Network Coding Scheme > CS4 (GPRS) and MCS5 (EGPRS)

Bit Stream > 2E9-1 PSR Bit Stream

AF/RF Enter appropriate offsets for Ext. Att. Output and Ext. Att. Input Connection Press Signal on to turn on the signal and change settings

#### **WCDMA-Release 99**

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification. The EUT has a nominal maximum output power of 24dBm (+1.7/-3.7).

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	Loopback Mode	Test Mode 1
WCDMA General Settings	Rel99 RMC	12.2kbps RMC
	Power Control Algorithm	Algorithm2
	βc / βd	8/15

#### WCDMA HSDPA

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification.

	Mode	HSDPA	HSDPA	HSDPA	HSDPA		
	Subset	1	2	3	4		
	Loopback Mode			Test Mode	1		
	Rel99 RMC			12.2kbps RM	IC		
	HSDPA FRC			H-Set1			
WCDMA General	Power Control Algorithm		Algorithm2				
	βс	2/15	12/15	15/15	15/15		
Settings	βd	15/15	15/15	8/15	4/15		
Settings	βd (SF)						
	βc/ βd	2/15	12/15	15/8	15/4		
	βhs	4/15	24/15	30/15	30/15		
	MPR(dB)	0	0	0.5	0.5		
	DACK			8			
	DNAK			8			
HSDPA	DCQI			8			
Specific	Ack-Nack repetition			3			
Settings	factor						
bettings	CQI Feedback			4ms			
	CQI Repetition Factor			2			
	Ahs=βhs/ βc			30/15			

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#### WCDMA HSUPA

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification.

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	Mode	HSUPA	HSUPA	HSUPA	HSUPA	HSUPA			
	Subset	1	2	3	4	5			
	Loopback Mode	Test Mode 1							
	Rel99 RMC	12.2kbps RMC							
	HSDPA FRC			H-Set1					
	HSUPA Test		HS	UPA Loopba	ack				
WCDM	Power Control Algorithm	Algorithm2							
A	Вс	11/15	6/15	15/15	2/15	15/15			
General	βd	15/15	15/15	9/15	15/15	0			
Settings	Вес	209/225	12/15	30/15	2/15	5/15			
	βc/βd	11/15	6/15	15/9	2/15	-			
	βhs	22/15	12/15	30/15	4/15	5/15			
	CM(dB)	1.0	3.0	2.0	3.0	1.0			
	MPR(dB)	0	2	1	2	0			
	DACK	- U		8		,			
	DNAK			8					
	DCQI 8								
HSDPA	Ack-Nack repetition								
Specific	factor	3							
Settings	CQI Feedback 4ms								
	CQI Repetition Factor	2							
	Ahs=βhs/βc			30/15					
	DE-DPCCH	6	8	8	5	7			
	DHARQ	0	0	0	0	0			
	AG Index	20	12	15	17	21			
	ETFCI	75	67	92	71	81			
	Associated Max UL	242.1	174.9	482.8	205.8	308.9			
	Data Rate kbps								
		E-TFC			E-TFCI 11 E				
HSUPA		E-TFC		11		TPO 4			
Specific		E-TFO		E-TFCI		CI 67			
Settings		E-TFCI E-TF		PO4 E-TFCI		I PO 18 CI 71			
g	Reference E FCls	E-TFC		92		I PO23			
	Reference E_FCIS	E-TFC		E-TFCI		CI 75			
		E-TFC		PO 18		I PO26			
		E-TF		1010	E-TF				
		E-TFCI				I PO 27			
				<u> </u>					

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#### HSPA+

The following tests were conducted according to the test requirements in Table C.11.1.4 of 3GPP TS 34 121-1

Sub- test	β <sub>c</sub> (Note3)	β <sub>d</sub>	βнs (Note1)	$\beta_{ec}$	β <sub>ed</sub> (2xSF2) (Note 4)	β <sub>ed</sub> (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β <sub>ed</sub> 1: 30/15 β <sub>ed</sub> 2: 30/15	β <sub>ed</sub> 3: 24/15 β <sub>ed</sub> 4: 24/15	3.5	2.5	14	105	105
Note 1	Note 1: $\Delta_{ACK}$ , $\Delta_{NACK}$ and $\Delta_{CQI}$ = 30/15 with $\beta_{hs}$ = 30/15 * $\beta_c$ .										
Note 2					ed on the relative	,		٠,	,0).		
Note 3	: DPD	CH is	not config	ured, the	refore the $\beta_c$ is s	et to 1 and $\beta_d$ =	0 by defau	lt.			
Note 4	Note 4: β <sub>ed</sub> can not be set directly; it is set by Absolute Grant Value.										
Note 5	Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-										
	DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH										
	confi	gurati	ons DPDC	H is not	allocated. The U	E is signalled to	use the ex	trapolatio	n algoritl	nm.	

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#### DC-HSDPA

The following tests were conducted according to the test requirements in Table C.8.1.12 of 3GPP TS 34.121-1

Table C.8.1.12: Fixed Reference Channel H-Set 12

	Parameter	Unit	Value			
Nominal	Avg. Inf. Bit Rate	kbps	60			
Inter-TTI	Distance	TTI's	1			
Number	of HARQ Processes	Proces	6			
		ses	0			
Informati	on Bit Payload ( $N_{\mathit{INF}}$ )	Bits	120			
Number	Code Blocks	Blocks	1			
Binary C	hannel Bits Per TTI	Bits	960			
Total Ava	ailable SML's in UE	SML's	19200			
Number	of SML's per HARQ Proc.	SML's	3200			
Coding F	Rate		0.15			
Number	of Physical Channel Codes	Codes	1			
Modulati	on		QPSK			
Note 1:	The RMC is intended to be used	for DC-HSD	)PA			
	mode and both cells shall transmit with identical					
	parameters as listed in the table.					
Note 2:						

constellation version 0 shall be used.

Radiated method:

ANSI/TIA-603-D section 2.2.17

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Manufacturer	Description	Description Model		Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2015-08-03	2016-08-02
Sunol Sciences	Antenna	JB3	A060611-3	2014-11-06	2017-11-05
HP	Amplifier	8447E	2434A02181	2015-09-01	2016-09-01
Agilent	Spectrum Analyzer	E4440A	SG43360054	2015-11-23	2016-11-22
ETS LINDGREN	Horn Antenna	3115	000 527 35	2015-09-06	2018-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2016-02-19	2017-02-19
Giga	Signal Generator	1026	320408	2015-05-09	2016-05-09
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
TDK RF	Horn Antenna	HRN-0118	130 084	2015-09-06	2018-09-06
N/A	Coaxial Cable	14m	N/A	2015-05-06	2016-05-06
N/A	Coaxial Cable	8m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2015-05-06	2016-05-06
E-Microwave	Attenuator(10dB)	EMCA10-5RN	OE01203239	2015-05-08	2016-05-08
Pasternack	RF Coaxial Cable	RF-01	N/A	2015-05-06	2016-05-06
Pasternack	RF Coaxial Cable	RF-02	N/A	2015-05-06	2016-05-06
Pasternack	RF Coaxial Cable	RF-03	N/A	2015-05-06	2016-05-06
N/A	Two-way Spliter	ODP-1-6-2S	OE0120142	2015-05-06	2016-05-06

#### **Test Data**

#### **Environmental Conditions**

Temperature:	22.7°C
Relative Humidity:	58%
ATM Pressure:	100.9 kPa

The testing was performed by Costa Dong on 2016-03-21.

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

## **Conducted Output Power**

## Cellular Band (Part 22H) & PCS Band (Part 24E)

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	Ch	Peak Output Power (dBm)									
Band	Channel No.	GSM	GPRS 1 TX Slot	GPRS 2 TX Slot	GPRS 3 TX Slot	GPRS 4 TX Slot	EDGE 1 TX Slot	EDGE 2 TX Slot	EDGE 3 TX Slot	EDGE 4 TX Slot	
	128	32.47	32.46	31.54	29.81	29.07	25.25	24.72	23.53	22.43	
Cellular	190	32.45	32.44	31.49	29.69	28.95	25.20	24.67	23.38	22.27	
	251	32.54	32.51	31.58	29.85	29.05	25.96	24.89	23.36	22.32	
	512	28.17	28.14	27.29	25.54	24.76	24.98	23.62	21.96	20.71	
PCS	661	28.18	28.17	27.31	25.58	24.84	24.42	23.07	21.65	20.45	
	810	28.44	28.43	27.58	25.90	25.16	25.22	23.62	22.19	20.84	

## WCDMA Band (PART 24E)

					700		
			Avei	age Output	Power (dB	m)	
Mode	3GPP Sub Test	Low Channel (Ave. Power)	Low Channel (PAR)	Middle Channel (Ave. Power)	Middle Channel (PAR)	High Channel (Ave. Power)	High Channel (PAR)
Rel 99	1	21.49	2.32	21.50	2.44	21.48	2.32
	1	20.43	2.52	20.63	2.80	20.51	2.45
HCDDA	2	20.57	2.55	20.52	2.78	20.47	2.35
HSDPA	3	20.46	2.47	20.53	2.71	20.47	2.46
	4	20.57	2.42	20.74	2.67	20.64	2.45
4	1	20.68	2.45	20.54	2.80	20.51	2.31
	2	20.43	2.58	20.64	2.75	20.40	2.46
HSUPA	3	20.48	2.56	20.59	2.66	20.39	2.49
	4	20.59	2.46	20.58	2.65	20.46	2.30
	5	20.40	2.46	20.55	2.72	20.54	2.36
	1	20.35	2.40	20.55	2.70	20.33	2.37
DC HCDDA	2	20.41	2.45	20.55	2.80	20.37	2.35
DC-HSDPA	3	20.41	2.57	20.39	2.65	20.34	2.34
	4	20.51	2.42	20.38	2.64	20.49	2.35
HSPA+ (16QAM)	1	20.55	2.50	20.46	2.79	20.43	2.36

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			Avei	age Output	Power (dB	m)	
Mode	3GPP Sub Test	Low Channel (Ave. Power)	Low Channel (PAR)	Middle Channel (Ave. Power)	Middle Channel (PAR)	High Channel (Ave. Power)	High Channel (PAR)
Rel 99	1	21.85	2.60	21.89	2.64	21.84	2.60
	1	20.74	2.51	21.03	2.71	20.81	2.39
HSDPA	2	20.92	2.50	20.84	2.59	20.85	2.40
НЗДРА	3	20.77	2.61	20.92	2.72	20.82	2.56
	4	20.88	2.59	21.11	2.70	21.03	2.48
	1	20.99	2.60	20.92	2.60	20.85	2.46
	2	20.76	2.51	20.96	2.72	20.73	2.49
HSUPA	3	20.80	2.54	20.96	2.63	20.75	2.44
	4	20.96	2.46	20.90	2.54	20.86	2.48
	5	20.73	2.45	20.87	2.59	20.85	2.47
	1	20.74	2.52	20.93	2.66	20.64	2.47
DC-HSDPA	2	20.79	2.49	20.90	2.64	20.73	2.41
DC-HSDPA	3	20.77	2.45	20.76	2.67	20.57	2.46
	4	20.84	2.44	20.74	2.70	20.65	2.56
HSPA+ (16QAM)	1	20.93	2.54	20.77	2.68	20.59	2.39

Note: peak-to-average ratio (PAR) <13 dB.

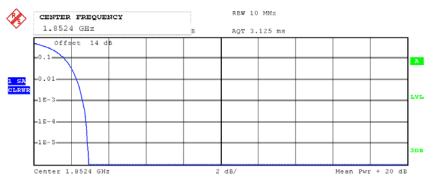
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Peak-to-average ratio (PAR)

#### WCDMA Band (PART 24E)

#### Low Channel

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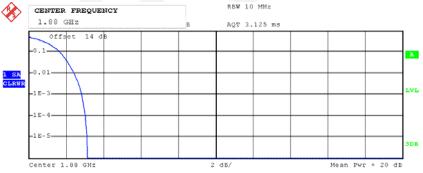
#### Complementary Cumulative Distribution Function (100000 samples)

Trace 1
Mean 21.68 dBm
Peak 24.63 dBm
Crest 2.95 dB

10% @ 1.68 dB 1% @ 2.32 dB .1% @ 2.64 dB

Date: 21.MAR.2016 22:30:16

#### **Middle Channel**



## Complementary Cumulative Distribution Function (100000 samples) ${\tt Trace} \quad 1$

Mean 21.90 dBm Peak 25.05 dBm Crest 3.15 dB 10% @ 1.68 dB 1% @ 2.44 dB

2.84 dB

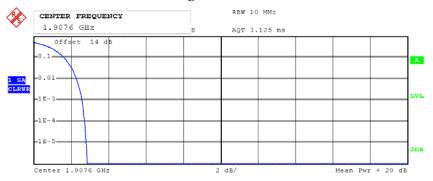
Date: 21.MAR.2016 22:31:10

.1% @

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#### **High Channel**

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Complementary Cumulative Distribution Function (100000 samples)

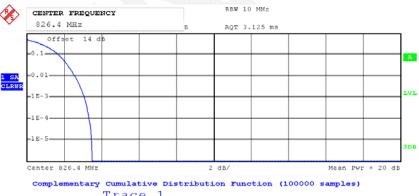
Trace 1
Mean 21.41 dBm
Peak 24.28 dBm
Crest 2.87 dB

10% @ 1.64 dB 1% @ 2.32 dB .1% @ 2.60 dB

Date: 21.MAR.2016 22:29:23

#### WCDMA Band V (PART 22H)

#### **Low Channel**



Trace 1
Mean 21.35 dBm
Peak 24.84 dBm
Crest 3.49 dB

10% @ 1.72 dB
1% @ 2.60 dB

3.12 dB

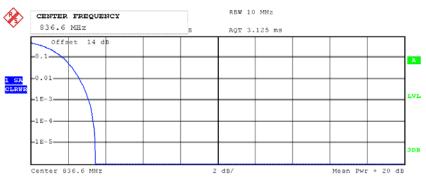
Date: 21.MAR.2016 22:27:28

.1% @

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#### **Middle Channel**

Report No.: RSZ160307001-00D



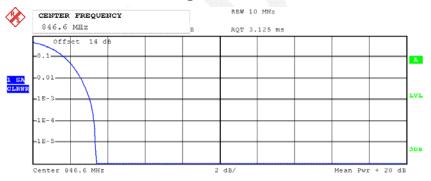
#### Complementary Cumulative Distribution Function (100000 samples)

Trace 1
Mean 21.95 dBm
Peak 25.40 dBm
Crest 3.46 dB

10% @ 1.76 dB 1% @ 2.64 dB .1% @ 3.12 dB

Date: 21.MAR.2016 22:27:48

#### **High Channel**



#### Complementary Cumulative Distribution Function (100000 samples)

Trace 1
Mean 21.43 dBm
Peak 24.84 dBm
Crest 3.41 dB

10% @ 1.72 dB

1% @ 2.60 dB .1% @ 3.08 dB

Date: 21.MAR.2016 22:28:27

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#### ERP & EIRP

#### Part 22H

Report No.: RSZ160307001-00D

		D	Sı	ubstituted Me	ethod	Alimal de		
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
GSM 850_Middle Channel								
836.600	Н	94.26	19.3	0.0	1	18.3	38.45	20.2
836.600	V	105.61	33.8	0.0	1	32.8	38.45	5.7
	EGPRS 850_Middle Channel							
836.600	Н	88.44	13.5	0.0	1	12.5	38.45	26.0
836.600	V	98.20	26.4	0.0	1	25.4	38.45	13.1
WCDMA Band V_Middle Channel								
836.600	Н	82.35	7.4	0.0	1	6.4	38.45	32.1
836.600	V	93.69	21.9	0.0	1	20.9	38.45	17.6

#### Part 24E

				1 41 ( 242	Test test test test test test test test		Alalala Alalala	
		Dansiman	Substituted Method			Absoluto		
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
PCS 1900_Middle Channel								
1880.000	Н	88.02	16.4	11.7	1.4	26.7	33.0	6.3
1880.000	V	89.81	18.4	11.7	1.4	28.7	33.0	4.3
	EGPRS1900_Middle Channel							
1880.000	Н	86.36	14.8	11.7	1.4	25.1	33.0	7.9
1880.000	V	87.43	16	11.7	1.4	26.3	33.0	6.7
	WCDMA Band II_Middle Channel							
1880.000	Н	83.05	11.5	11.7	1.4	21.8	33.0	11.2
1880.000	V	84.79	13.3	11.7	1.4	23.6	33.0	9.4

#### Note:

- 1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
- 2) Absolute Level = SG Level Cable loss + Antenna Gain 3) Margin = Limit-Absolute Level

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

Report No.: RSZ160307001-00D

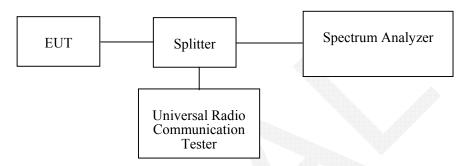
#### **Applicable Standard**

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

#### **Test Procedure**

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

The 26 dB & 99% bandwidth was recorded.



#### **Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2015-11-23	2016-11-22
R&S	Universal Radio Communication Tester	CMU200	109 038	2015-07-28	2016-07-27
E-Microwave	DC Blocking	EMDCB- 00036	0E01201047	2015-05-06	2016-05-06
E-Microwave	Attenuator(10dB)	EMCA10- 5RN	OE01203239	2015-05-08	2016-05-08
Pasternack	RF Coaxial Cable	RF-01	N/A	2015-05-06	2016-05-06
Pasternack	RF Coaxial Cable	RF-02	N/A	2015-05-06	2016-05-06
Pasternack	RF Coaxial Cable	RF-03	N/A	2015-05-06	2016-05-06
N/A	Two-way Spliter	ODP-1-6- 2S	OE0120142	2015-05-06	2016-05-06

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

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#### **Test Data**

#### **Environmental Conditions**

Temperature:	22.7°C
Relative Humidity:	52%
ATM Pressure:	100.9 kPa

The testing was performed by Costa Dong on 2016-03-21.

Test Mode: Transmitting

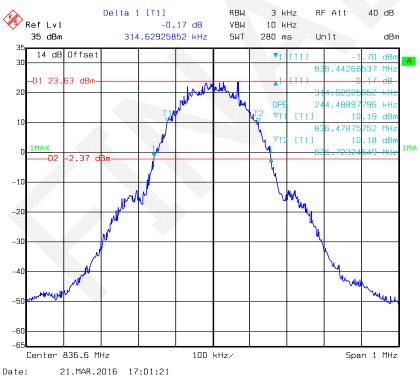
Test Result: Compliant. Please refer to the following table and plots.

Report No.: RSZ160307001-00D

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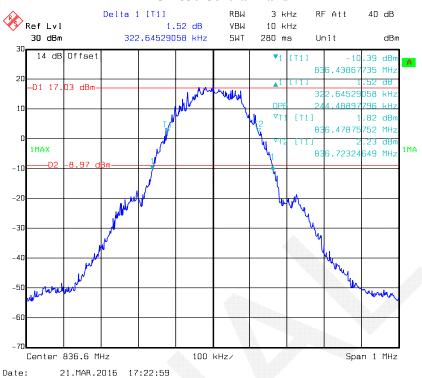
Band	Channel No.	Mode	99% Occupied Bandwidth	26 dB Occupied Bandwidth
		667.6	kHz	kHz
Cellular	190	GSM	244	315
Centulai	170	EDGE	244	323
PCS	661	PCS	244	321
res	001	EDGE	244	317
WCDMA	9400	Rel 99	4168	4729
Band	9400	HSDPA	4188	4709
Dana	9400	HSUPA	4188	4709
	4183	Rel 99	4168	4669
WCDMA Band V	4183	HSDPA	4168	4709
Daild V	4183	HSUPA	4168	4689

#### **GMSK 850 Cellular Band**

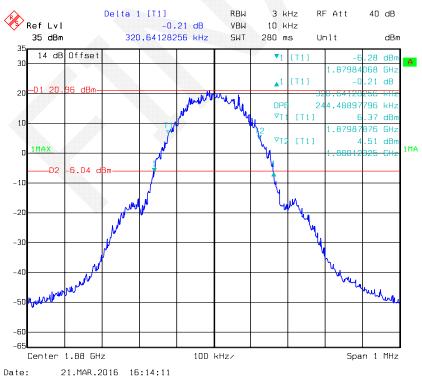


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#### **EDGE 850 Cellular Band**



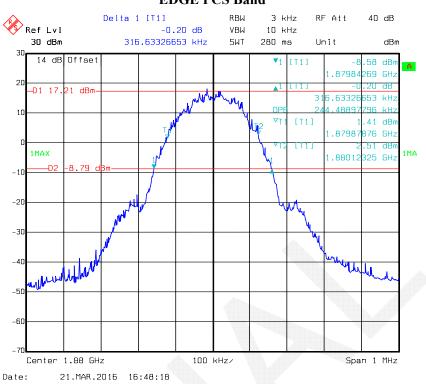
#### **GMSK PCS Band**



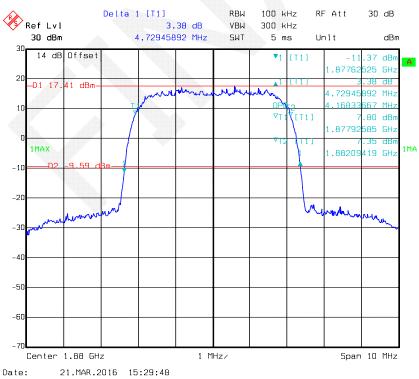
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#### **EDGE PCS Band**

Report No.: RSZ160307001-00D



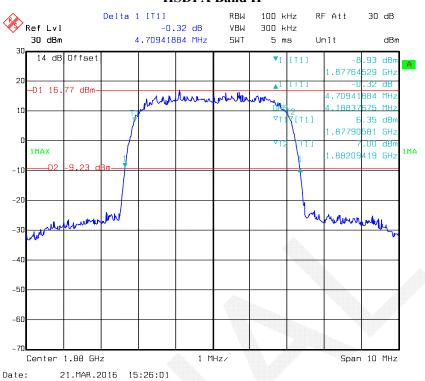
#### **REL99 Band II**



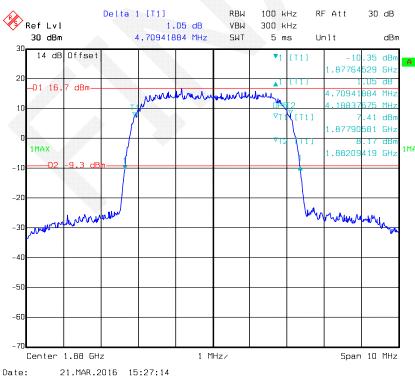
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#### **HSDPA Band II**

Report No.: RSZ160307001-00D

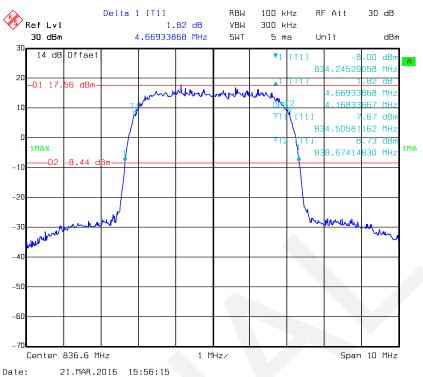


#### **HSUPA Band II**

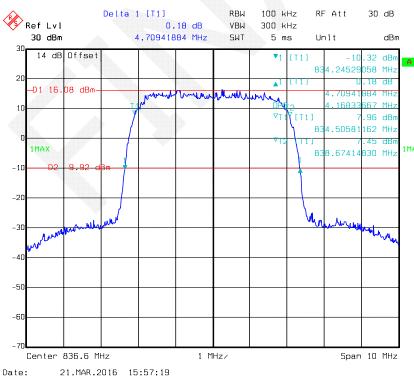


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#### **REL99 Band V**

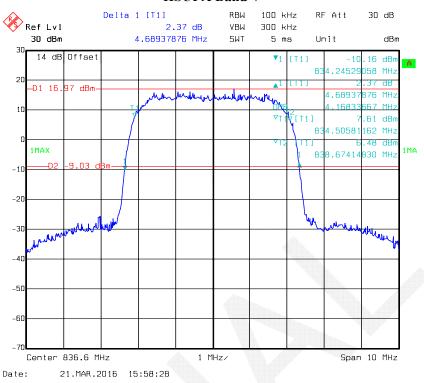


#### **HSDPA Band V**



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#### **HSUPA Band V**



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

Report No.: RSZ160307001-00D

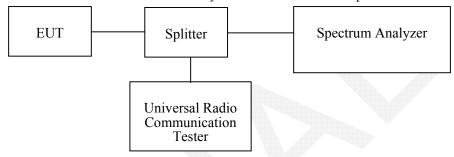
#### **Applicable Standard**

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. Sufficient scans were taken to show any out of band emissions up to 10<sup>th</sup> harmonic.



#### **Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2015-11-23	2016-11-22
R&S	Universal Radio Communication Tester	CMU200	109 038	2015-07-28	2016-07-27
E-Microwave	DC Blocking	EMDCB- 00036	0E01201047	2015-05-06	2016-05-06
E-Microwave	Attenuator(10dB)	EMCA10- 5RN	OE01203239	2015-05-08	2016-05-08
Pasternack	RF Coaxial Cable	RF-01	N/A	2015-05-06	2016-05-06
Pasternack	RF Coaxial Cable	RF-02	N/A	2015-05-06	2016-05-06
Pasternack	RF Coaxial Cable	RF-03	N/A	2015-05-06	2016-05-06
N/A	Two-way Spliter	ODP-1-6- 2S	OE0120142	2015-05-06	2016-05-06

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

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#### **Test Data**

#### **Environmental Conditions**

Temperature:	22.7°C
Relative Humidity:	48%
ATM Pressure:	100.9kPa

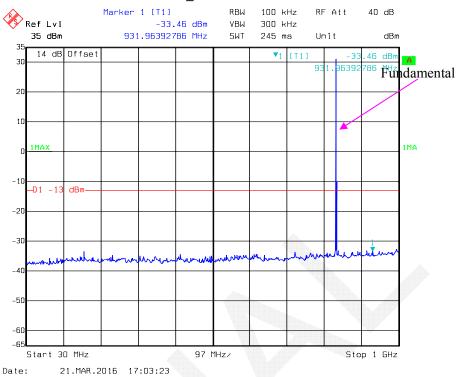
Report No.: RSZ160307001-00D

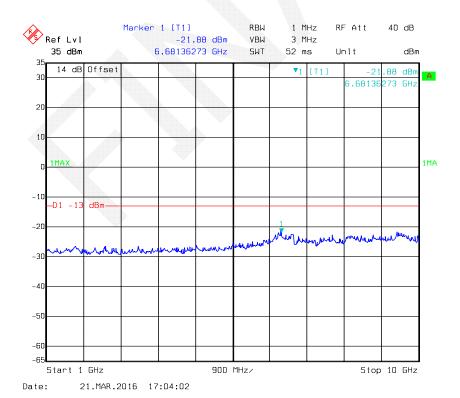
The testing was performed by Costa Dong on 2016-03-21.

Please refer to the following plots.

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#### **GSM850\_Middle Channel**





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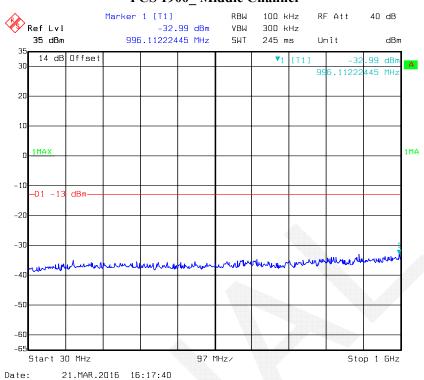
Date:

Start 1 GHz

21.MAR.2016 16:21:30

## PCS 1900\_ Middle Channel

Report No.: RSZ160307001-00D



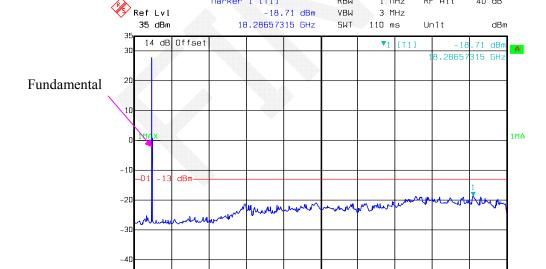
RBW

1 MHz

RF Att

40 dB

Stop 20 GHz

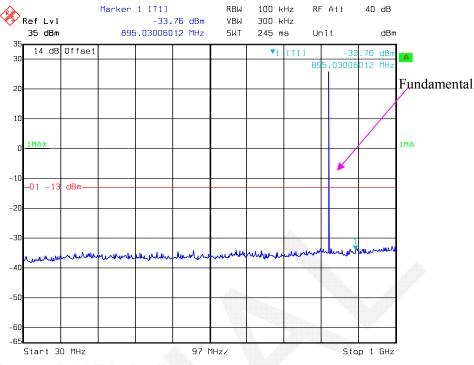


Marker 1 [T1]

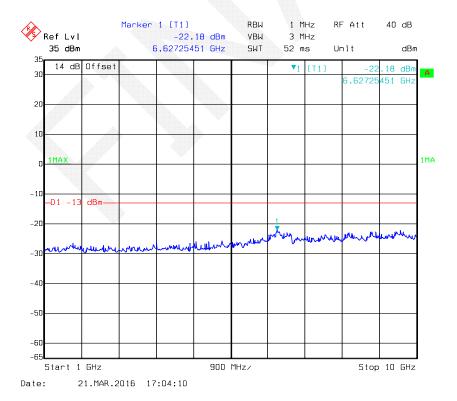
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1.9 GHz/

#### **EDGE850\_ Middle Channel**

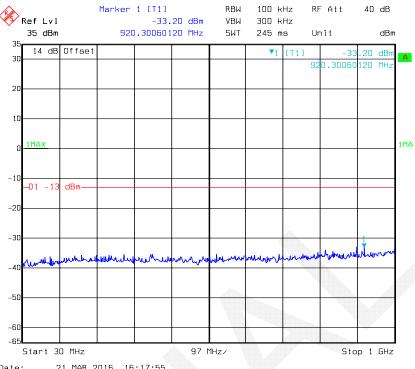


Date: 21.MAR.2016 17:14:08



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#### EDGE1900\_ Middle Channel

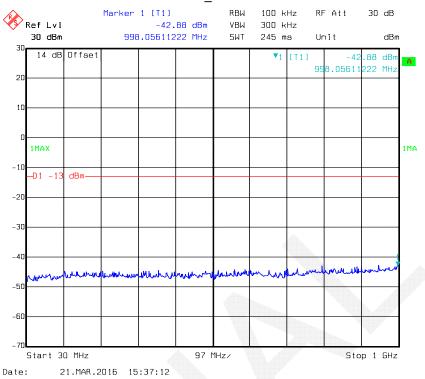


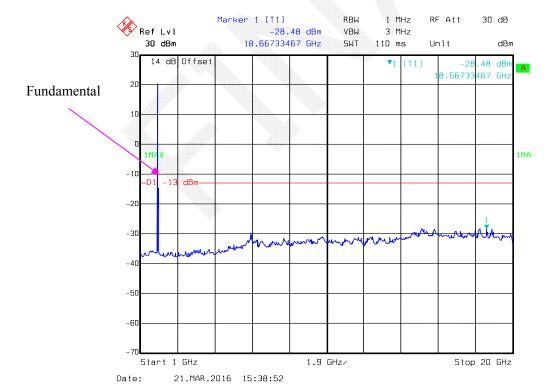
Date: 21.MAR.2016 16:17:55



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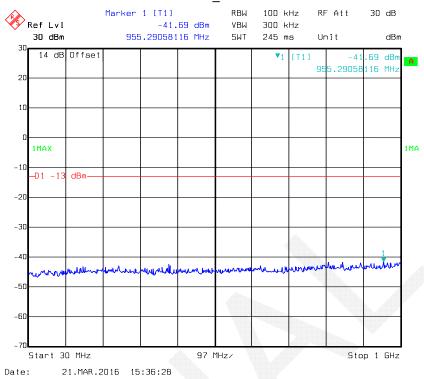
#### **REL99 Band II\_ Middle Channel**

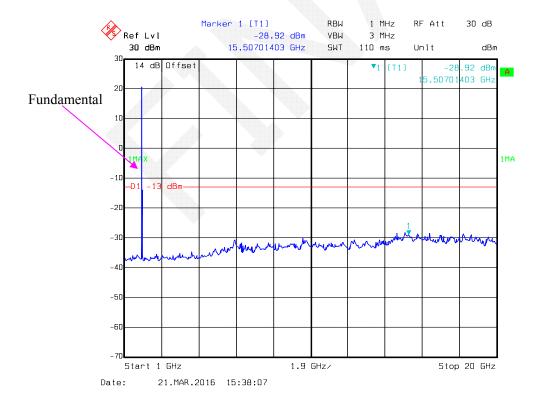




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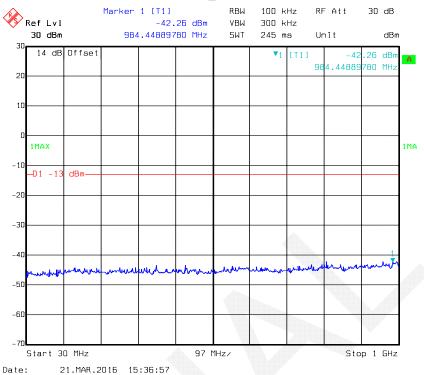
#### **HSDPA Band II \_Middle Channel**

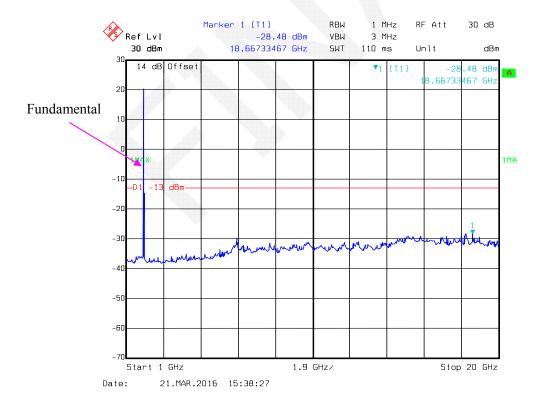




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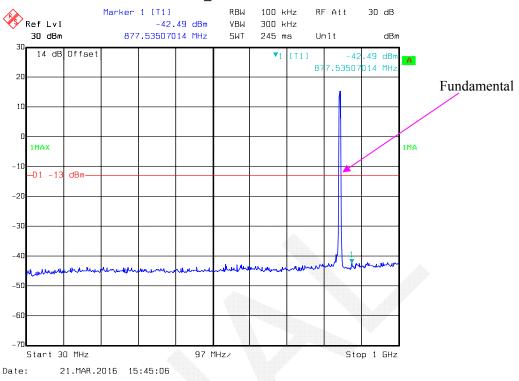
## **HSUPA Band II \_ Middle Channel**

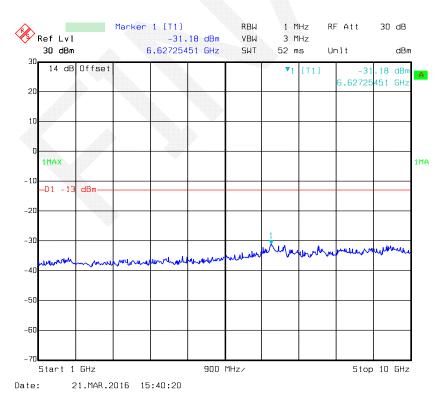




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## REL99 Band $V_{\rm Middle}$ Channel

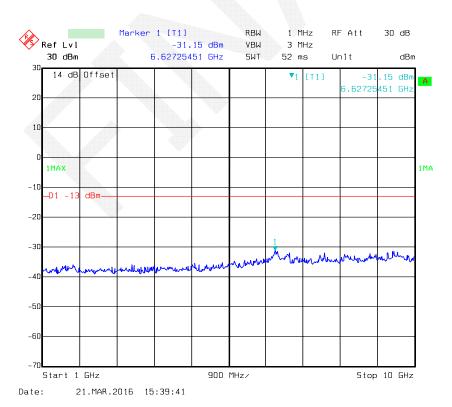




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## $HSDPA \ Band \ V\_ \ Middle \ Channel$

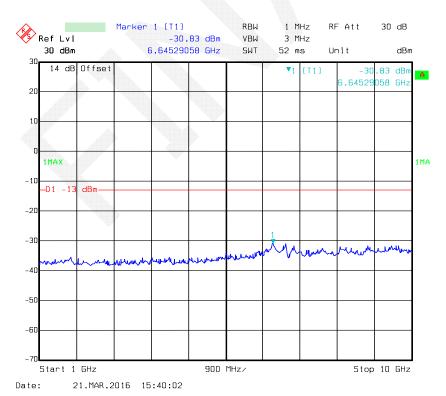




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### **HSUPA Band V\_Middle Channel**





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

Report No.: RSZ160307001-00D

#### **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
R&S	EMI Test Receiver	ESCI	100224	2015-08-03	2016-08-02
Sunol Sciences	Antenna	ЈВ3	A060611-3	2014-11-06	2017-11-05
HP	Amplifier	8447E	2434A02181	2015-09-01	2016-09-01
Agilent	Spectrum Analyzer	E4440A	SG43360054	2015-11-23	2016-11-22
ETS-Lindgren	Horn Antenna	3115	9808-5557	2015-09-06	2018-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2016-02-19	2017-02-19
Giga	Signal Generator	1026	320408	2015-05-09	2016-05-09
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
TDK RF	Horn Antenna	HRN-0118	130 084	2015-09-06	2018-09-06
N/A	Coaxial Cable	14m	N/A	2015-05-06	2016-05-06
N/A	Coaxial Cable	8m	N/A	2015-05-06	2016-05-06

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

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## **Test Data**

#### **Environmental Conditions**

Temperature:	19.7°C
Relative Humidity:	41%
ATM Pressure:	101.8kPa

The testing was performed by Costa Dong on 2016-03-11.

EUT Operation Mode: Transmitting

## Cellular Band (PART 22H)

Report No.: RSZ160307001-00D

#### 30 MHz-10 GHz:

		Dansiron	Si	ubstituted Me	thod	Absoluto		
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	S.G. Level (dBm)	G. Antenna Cable Loss Level			Limit (dBm)	Margin (dB)
Frequency: 836.6 MHz								
1673.200	Н	46.27	-54.8	10.6	1.5	-45.7	-13.0	32.7
1673.200	V	47.47	-53.9	10.6	1.5	-44.8	-13.0	31.8
2509.800	Н	43.19	-54.8	13.1	2.8	-44.5	-13.0	31.5
2509.800	V	45.10	-52	13.1	2.8	-41.7	-13.0	28.7
240.300	Н	40.33	-67.7	0.0	0.5	-68.2	-13.0	55.2
270.600	V	44.18	-61.3	0.0	0.5	-61.8	-13.0	48.8

# WCDMA Band V (PART 22H)

		D:	. Substituted Method		A la ma landa					
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)		
	Frequency: 836.6 MHz									
1673.200	Н	33.63	-67.4	10.6	1.5	-58.3	-13.0	45.3		
1673.200	V	34.53	-66.8	10.6	1.5	-57.7	-13.0	44.7		
240.300	Н	38.86	-69.2	0.0	0.5	-69.7	-13.0	56.7		
270.600	V	43.33	-62.1	0.0	0.5	-62.6	-13.0	49.6		

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## PCS Band (PART 24E)

Report No.: RSZ160307001-00D

#### 30 MHz-20 GHz:

		Substituted Method		A la ma landa						
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)		
	Frequency: 1880 MHz									
3760.000	Н	45.92	-48.4	13.8	2.9	-37.5	-13.0	24.5		
3760.000	V	49.93	-43.1	13.8	2.9	-32.2	-13.0	19.2		
240.300	Н	40.15	-67.9	0.0	0.5	-68.4	-13.0	55.4		
270.600	V	43.69	-61.8	0.0	0.5	-62.3	-13.0	49.3		

## WCDMA Band II (PART 24E)

		Substituted Method		thod	Abaaluta				
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)	
	Frequency: 1880 MHz								
3760.000	Н	43.37	-50.9	13.8	2.9	-40.0	-13.0	27.0	
3760.000	V	46.96	-46.1	13.8	2.9	-35.2	-13.0	22.2	
240.300	Н	39.64	-68.4	0.0	0.5	-68.9	-13.0	55.9	
270.600	V	43.92	-61.5	0.0	0.5	-62.0	-13.0	49.0	

#### Note:

- 1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz
- 2) Absolute Level = SG Level Cable loss + Antenna Gain
- 3) Margin = Limit-Absolute Level

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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.

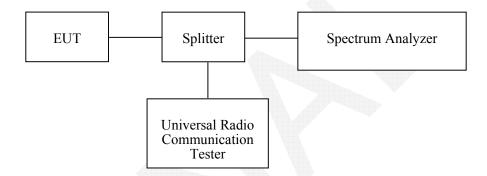
Report No.: RSZ160307001-00D

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.



#### **Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2015-11-23	2016-11-22
R&S	Universal Radio Communication Tester	CMU200	109 038	2015-07-28	2016-07-27
E-Microwave	DC Blocking	EMDCB- 00036	0E01201047	2015-05-06	2016-05-06
E-Microwave	Attenuator(10dB)	EMCA10- 5RN	OE01203239	2015-05-08	2016-05-08
Pasternack	RF Coaxial Cable	RF-01	N/A	2015-05-06	2016-05-06
Pasternack	RF Coaxial Cable	RF-02	N/A	2015-05-06	2016-05-06
Pasternack	RF Coaxial Cable	RF-03	N/A	2015-05-06	2016-05-06
N/A	Two-way Spliter	ODP-1-6-2S	OE0120142	2015-05-06	2016-05-06

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

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### **Test Data**

#### **Environmental Conditions**

Temperature:	22.7°C
Relative Humidity:	48%
ATM Pressure:	100.9kPa

The testing was performed by Costa Dong on 2016-03-21.

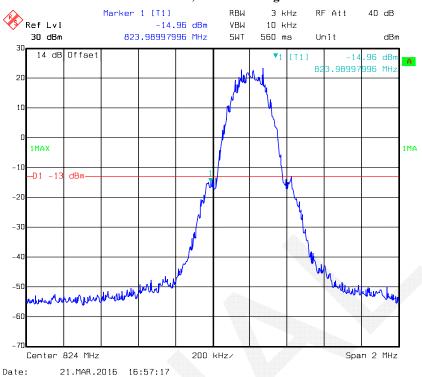
Report No.: RSZ160307001-00D

Test Mode: Transmitting

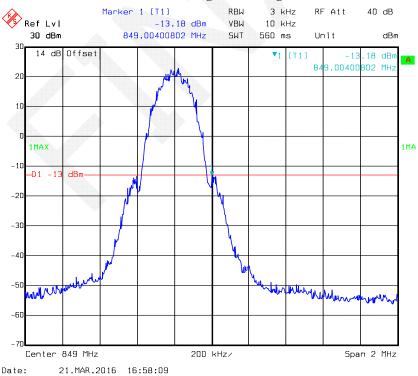
Test Result: Compliant. Please refer to the following plots.

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#### **GSM 850, Left Band Edge**



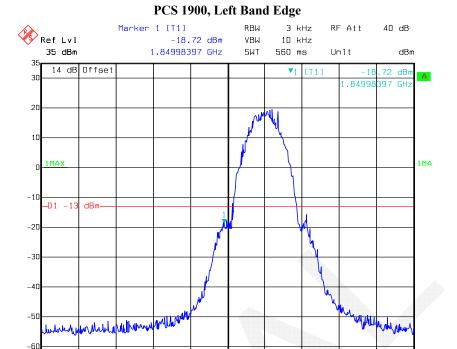
#### GSM 850, Right Band Edge



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Span 2 MHz

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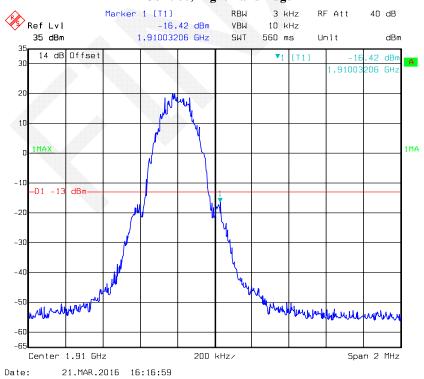


Date: 21.MAR.2016 16:16:08

Center 1.85 GHz

### PCS 1900, Right Band Edge

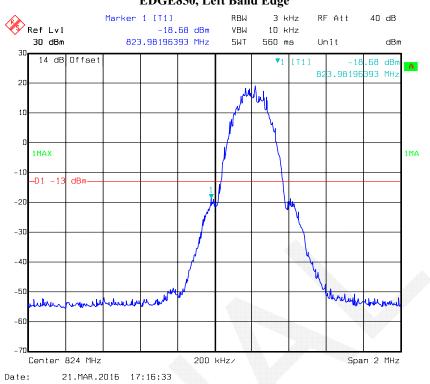
200 kHz/



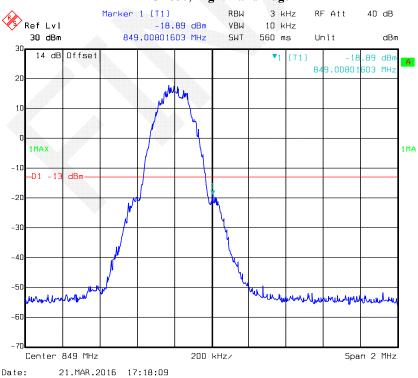
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# EDGE850, Left Band Edge

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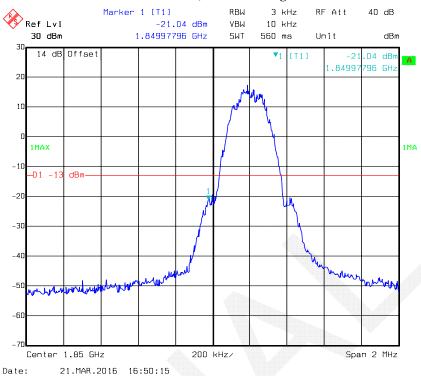


#### EDGE850, Right Band Edge

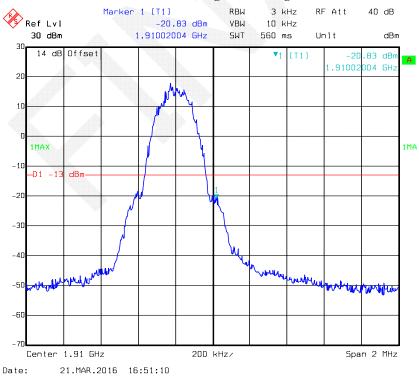


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#### EDGE 1900, Left Band Edge

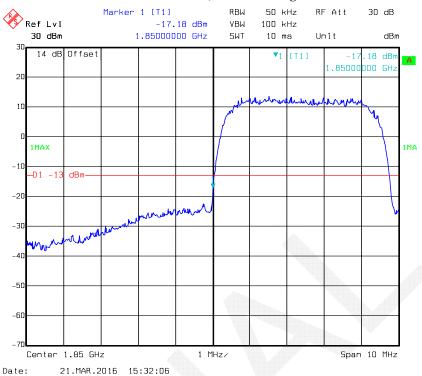


#### EDGE 1900, Right Band Edge

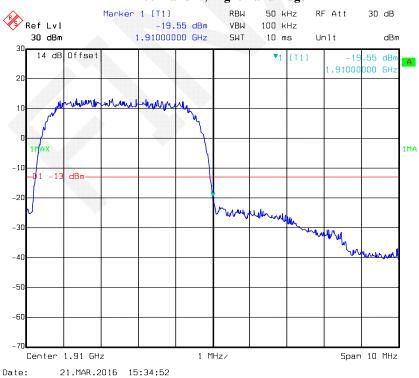


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#### **REL99 Band II, Left Band Edge**



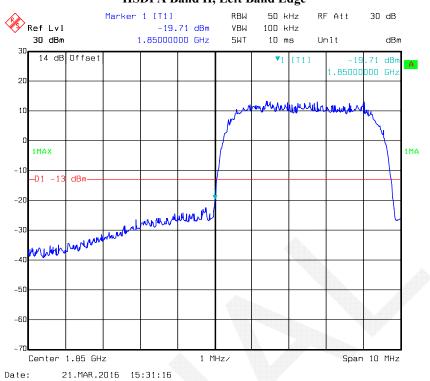
### **REL99 Band II, Right Band Edge**



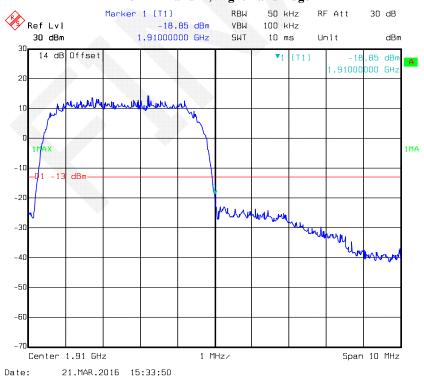
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# HSDPA Band II, Left Band Edge

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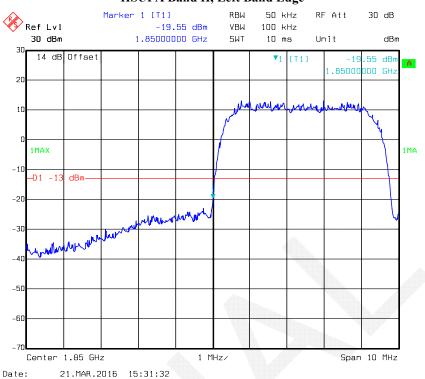
#### **HSDPA Band II, Right Band Edge**



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## **HSUPA Band II, Left Band Edge**

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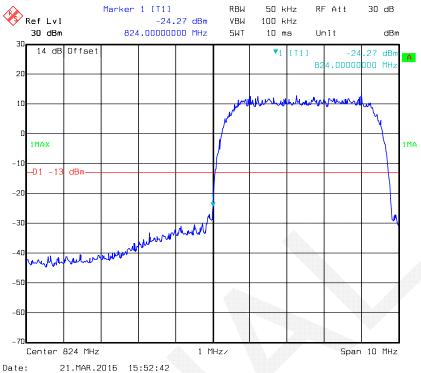


#### **HSUPA Band II, Right Band Edge**



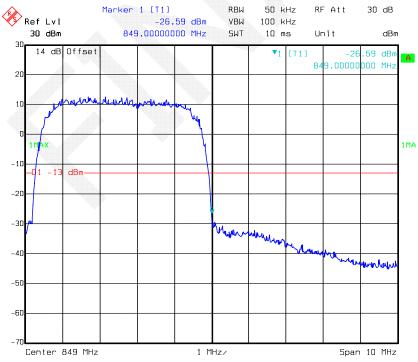
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#### REL99 Band V, Left Band Edge



#### 21.MAR.2016 15:52:42

#### **REL99 Band V Right Band Edge**

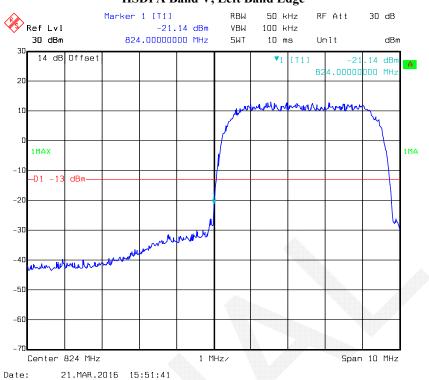


Date: 21.MAR.2016 15:54:32

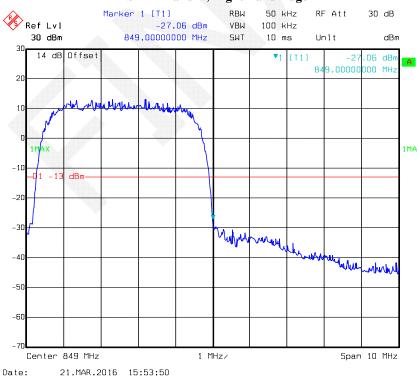
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# HSDPA Band V, Left Band Edge

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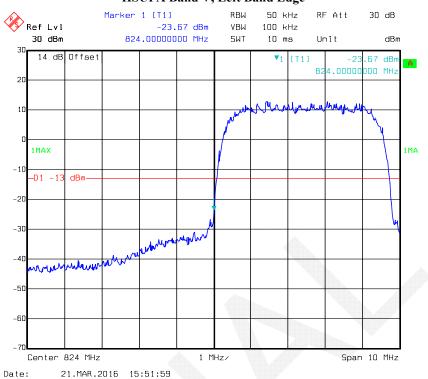
#### HSDPA Band V, Right Band Edge



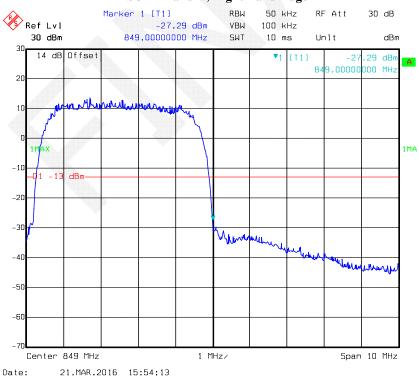
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## **HSUPA Band V, Left Band Edge**

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#### HSUPA Band V, Right Band Edge



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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 T	ransmitters	in the	Public	Mohile	Services
riculucite	I Oldiand	. 1()  1	таныницыз	THE LITE	i umic	IVIOLIL	DUI VICUS

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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	

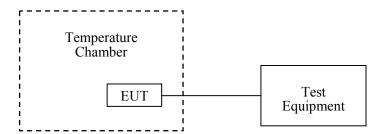
According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

#### **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 from 85% 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
Dongzhixu	High Temperature Test Chamber	DP1000	201105083-3	2015-09-10	2016-09-09
R&S	Universal Radio Communication Tester	CMU200	109 038	2015-07-28	2016-07-27
E-Microwave	DC Blocking	EMDCB- 00036	0E01201047	2015-05-06	2016-05-06
E-Microwave	Attenuator(10 dB)	EMCA10- 5RN	OE01203239	2015-05-08	2016-05-08
Pasternack	RF Coaxial Cable	RF-03	N/A	2015-05-06	2016-05-06
UNI-T	Multimeter	UT39A	M130199938	2015-04-10	2016-04-10

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### **Test Data**

#### **Environmental Conditions**

Temperature:	19.7°C
Relative Humidity:	52%
ATM Pressure:	101.9kPa

The testing was performed by Costa Dong on 2016-03-11.

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

# Cellular Band (Part 22H)

GMSK, Middle Channel, f <sub>c</sub> = 836.6 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
	$V_{DC}$	Hz	ppm	ppm
-30		-17	-0.020	
-20		-13	-0.016	
-10		-4	-0.005	
0		-10	-0.012	
10	3.7	-15	-0.018	
20		-16	-0.019	2.5
30		-12	-0.014	
40		-13	-0.016	
50		-18	-0.022	
25	3.5	-8	-0.010	
25	4.2	-5	-0.006	

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		VIII			
F	EDGE, Middle Channel, f <sub>c</sub> = 836.6 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit	
	V <sub>DC</sub>	Hz	ppm	ppm	
-30		-25	-0.030		
-20		-27	-0.032		
-10		-24	-0.029		
0		-27	-0.032		
10	3.7	-20	-0.024		
20		-26	-0.031	2.5	
30		-26	-0.031		
40		-19	-0.023		
50		-23	-0.027		
25	3.5	-26	-0.031		
25	4.2	-20	-0.024		

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	Middle Channel, f <sub>c</sub> = 836.6 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit	
	$V_{DC}$	Hz	ppm	ppm	
-30		-30	-0.036		
-20		-14	-0.017		
-10		-11	-0.013		
0	3.7	-15	-0.018		
10		-9	-0.011		
20		-11	-0.013	2.5	
30		-1	-0.001		
40		-6	-0.007		
50		-3	-0.004		
25	3.5	-5	-0.006	<b>A</b>	
	4.2	-20	-0.024		

### **WCDMA Band V: HSDPA**

	Middle Channel, f <sub>c</sub> = 836.6 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit	
	$V_{DC}$	Hz	ppm	ppm	
-30		-20	-0.024		
-20		-13	-0.016		
-10		-22	-0.026		
0		-6	-0.007		
10	3.7	-14	-0.017		
20		-10	-0.012	2.5	
30		-17	-0.020		
40		-9	-0.011		
50		-4	-0.005		
25	3.5	-8	-0.010		
25	4.2	-20	-0.024		

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## **WCDMA Band V: HSUPA**

	Middle Channel, f <sub>c</sub> = 836.6 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit	
	$V_{DC}$	Hz	ppm	ppm	
-30		-20	-0.024		
-20		-13	-0.016		
-10	3.7	-12	-0.014		
0		-17	-0.020		
10		-8	-0.010		
20		2	0.002	2.5	
30		-6	-0.007		
40		-1	-0.001		
50		-2	-0.002		
25	3.5	-5	-0.006		
	4.2	-25	-0.030		

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# PCS Band (Part 24E)

	GMSK, Middle Channel, f <sub>c</sub> = 1880.0 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result	
	V <sub>DC</sub>	Hz	ppm		
-30		-15	-0.008		
-20		-11	-0.006		
-10		-7	-0.004		
0		-8	-0.004		
10	3.7	-22	-0.012		
20		-17	-0.009	Compliance	
30		-16	-0.009		
40		-15	-0.008		
50		-24	-0.013		
25	3.5	-23	-0.012		
	4.2	-25	-0.013		

	EDGE, Middle Channel, f <sub>c</sub> = 1880.0 MHz					
Temperature	Voltage	Frequency Error	Frequency Error	Result		
	$V_{DC}$	Hz	ppm			
-30		-28	-0.015			
-20		-28	-0.015			
-10		-21	-0.011			
0		-22	-0.012			
10	3.7	-17	-0.009			
20		-21	-0.011	Compliance		
30		-21	-0.011			
40		-15	-0.008			
50		-17	-0.009			
25	3.5	-22	-0.012			
23	4.2	-17	-0.009			

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Middle Channel, f <sub>c</sub> = 1880.0 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
	$V_{DC}$	Hz	ppm	
-30		-21	-0.011	
-20		-19	-0.010	
-10		-12	-0.006	
0	3.7	-10	-0.005	
10		-15	-0.008	
20		-5	-0.003	Compliance
30		-10	-0.005	
40		-11	-0.006	
50		5	0.003	
25	3.5	-7	-0.004	
25	4.2	-14	-0.007	

### **WCDMA Band II: HSDPA**

	Middle Channel, f <sub>c</sub> = 1880.0 MHz					
Temperature	Voltage	Frequency Error	Frequency Error	Result		
	$V_{DC}$	Hz	ppm			
-30		-22	-0.012			
-20		-20	-0.011			
-10		-9	-0.005			
0		-20	-0.011			
10	3.7	-11	-0.006			
20		-18	-0.010	Compliance		
30		-7	-0.004			
40		-4	-0.002			
50		-11	-0.006			
25	3.5	-4	-0.002			
25	4.2	-9	-0.005			

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## WCDMA Band II: HSUPA

	Middle Channel, f <sub>c</sub> = 1880.0 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result	
	$V_{DC}$	Hz	ppm		
-30		-22	-0.012		
-20		-7	-0.004		
-10	3.7	-7	-0.004		
0		-13	-0.007		
10		-7	-0.004		
20		-8	-0.004	Compliance	
30		-4	-0.002		
40		-5	-0.003		
50		-23	-0.012		
25	3.5	-10	-0.005		
	4.2	-7	-0.004		

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### **DECLARATION LETTER**

Cloud Bridge S.A. DE C.V.

Address: Autopista Mexico Queretaro3063, Local 18, San Andres Atenco, Tlalnepantla, Mexico.

Report No.: RSZ160307001-00D

Tel: 005215591955014 Fax: 005215591955014 Email: Mario.mercado@Freshfun.com.mx

## **Product Similarity Declaration**

March 28, 2016

FEDERAL COMMUNICATIONS COMMISSIONS Authorization and Evaluation Division 7435 Oakland Mills Road Columbia, MD 21046

Mario Mercado

To Whom It May Concern,

We, Cloud Bridge S.A. DE C.V., hereby declare that we have a product named as <u>3G</u> Mobile phone (Model number: M351, FCC ID: <u>2AHNRFFM351</u>) was tested by BACL, meanwhile, for our marketing purpose, we would like to list a series models (<u>Cloud Bridge M351</u>, <u>FreshFun M351</u>) on reports and certificate, all the models are identical schematics, only named differently.

No other changes are made to them

We confirm that all information above is true, and we'll be responsible for all the consequences, Please contact me if you have any question.

Sincerely,

Signature

MARIO MERCADO

Manager

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

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