

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

For

## **Posh Mobile Limited**

1011A, 10/F., Harbour Centre Tower 1, No.1 Hok Cheung St., Hung Hom, Kowloon, Hong Kong

FCC ID: 2ABN6C353

Report Type: Product Type: Original Report Primo Plus Allen Dious **Test Engineer:** Allen Qiao Report Number: RDG150828004-00C **Report Date:** 2015-09-18 Sola Hugo Sula Huang RF Leader **Reviewed By:** Bay Area Compliance Laboratories Corp. (Dongguan) **Test Laboratory:** No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn

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#### **GENERAL INFORMATION**

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

The *Posh Mobile Limited*'s product, model number: *C353A (FCC ID: 2ABN6C353)* (the "EUT") in this report was a *Primo Plus*, which was measured approximately: 11.6 cm (L) x 6.2 cm (W) x 1 cm (H), rated input voltage: DC 3.7V rechargeable Li-ion battery or DC5V charging from adapter.

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Note: The series product, model C353A, C353B are electrically identical, the difference between them is just the model name, we selected C353A for fully testing, the detail was explained in the attached declaration letter.

All measurement and test data in this report was gathered from production sample serial number: 150828004 (Assigned by BACL, Dongguan). The EUT was received on 2015-08-31.

#### **Objective**

This report is prepared on behalf of *Posh Mobile Limited* 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: 2ABN6C353 FCC Part 15C DSS submissions with FCC ID: 2ABN6C353 FCC Part 15C DTS submissions with FCC ID: 2ABN6C353

#### **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**

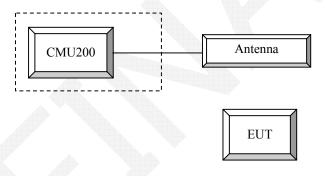
No modification was made to the EUT.

## **Support Equipment List and Details**

Manufacturer	Description	Model	Serial Number
R&S	Universal Radio Communication Tester	CMU200	109038
N/A	ANTENNA	N/A	N/A

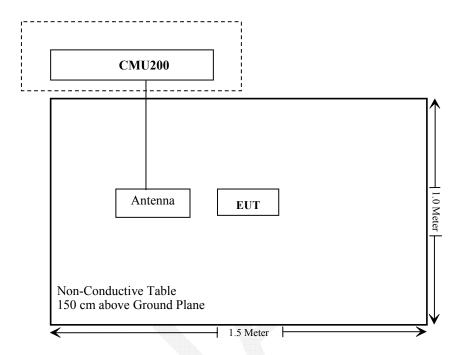
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#### **Configuration of Test Setup**



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## **Block Diagram of Test Setup**



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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: RDG150828004-20.



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

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

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 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)

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

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#### **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	Rel99 RMC	12.2kbps RMC		
WCDMA General Settings	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	1C		
	HSDPA FRC			H-Set1	_		
WCDMA	Power Control Algorithm			Algorithm2	2		
WCDMA	βς	2/15	12/15	15/15	15/15		
General	βd	15/15	15/15	8/15	4/15		
Settings	βd (SF)	64					
	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 Settings	Ack-Nack repetition factor	3					
	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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Copback Mode		Mode	HSUPA	HSUPA	HSUPA	HSUPA	HSUPA			
Rel99 RMC										
HSDPA FRC   HSUPA Loopback		Loopback Mode	Test Mode 1							
HSUPA Test   Power Control   Algorithm2		Rel99 RMC	12.2kbps RMC							
Power Control Algorithm		HSDPA FRC	H-Set1							
A   General Settings   Bc   11/15   6/15   15/15   2/15   15/15   0				HS	SUPA Loopb	ack				
General Settings					Algorithm2					
Settings			11/15	6/15	15/15	2/15	15/15			
Second		βd								
B  β  β  β  β  β  β  β  β  β  β  β  β  β	Settings	Вес	209/225	12/15	30/15	2/15	5/15			
Bhs   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   8     DNAK   8     DCQI   8     Ack-Nack repetition factor   3     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 Data Rate kbps   242.1   174.9   482.8   205.8   308.9      HSUPA Specific Settings   Reference E_FCIs   E-TFCI PO 18     E-TFCI 10   E-TFCI 10   E-TFCI PO 18     E-TFCI 75   E-TFCI 75   E-TFCI     E-TFCI 75   E-TFCI 90 18     E-TFCI 75   E-TFCI 90 18     E-TFCI 75   E-TFCI 90 18     E-TFCI 75   E-TFCI PO 26     E-TFCI 81   E-TFCI 81     E-TFCI 81     E-TFCI 81   E-TFCI 81     E-TFCI			11/15	6/15		2/15	-			
CM(dB)			22/15	12/15	30/15	4/15	5/15			
MPR(dB)										
DACK   DNAK   8   S   DCQI   8   S   Ack-Nack repetition factor   Settings   CQI Feedback   4ms   CQI Repetition Factor   2   Settings   DE-DPCCH   6   8   8   5   7   Settings   DE-DPCCH   6   8   8   5   7   Settings   DHARQ   0   0   0   0   0   0   O   O   O   O					1					
HSDPA   Specific Settings   Se			,		8		· · · · ·			
DCQI										
Ack-Nack repetition factor   Specific Settings										
Specific Settings   Factor   CQI Feedback   4ms	HSDPA	Ack-Nack repetition				Annual Control				
CQI Repetition   Factor   State   Factor   State	Specific		_		3					
Factor   2   30/15	Settings	CQI Feedback	4ms							
Ahs=βhs/βc   30/15     DE-DPCCH   6										
DE-DPCCH					30/15					
DHARQ		DE-DPCCH	6	8		5	7			
AG Index   20   12   15   17   21     ETFCI   75   67   92   71   81     Associated Max UL Data Rate kbps   242.1   174.9   482.8   205.8   308.9      E-TFCI   11 E							0			
HSUPA   Specific Settings   Reference E_FCls   Reference E_FCls   E-TFCI PO23   E-TFCI PO26   E-TF										
Data Rate kbps				67	92	71				
HSUPA   E-TFCI   11 E   E-TFCI   11 E   E-TFCI   11 E   E-TFCI   11 E   E-TFCI   12   E-TFCI   12   E-TFCI   13   E-TFCI   14   E-TFCI   14   E-TFCI   15   E-TFCI   15   E-TFCI   16   E-TFCI   16		Associated Max UL	242.1	174.0	192.9	205.9	208.0			
HSUPA   Specific Settings   Reference E_FCls   Reference E_FCls   E-TFCI PO 4   E-TFCI PO 4   E-TFCI PO 4   E-TFCI PO 18   E-TFCI PO 18   E-TFCI PO 18   E-TFCI PO 18   E-TFCI PO 23   E-TFCI PO 18   E		Data Rate kbps	242.1	1/4.9	482.8	203.8	308.9			
	Specific	Reference E_FCls	E-TFC E-TFCI E-TFCI E-TFCI E-TFCI E-TFCI E-TFCI	I PO 4 CI 67 PO 18 CI 71 I PO23 CI 75 I PO26 CI 81	E-TFCI PO4 E-TFCI 92 E-TFCI	E-TFC E-TF E-TFC E-TFC E-TFC E-TFC E-TFC	CI PO 4 CI 67 I PO 18 CI 71 I PO23 CI 75 I PO26 CI 81			

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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

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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)	(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 2 Note 3 Note 4	Note 1: $\Delta_{ACK}$ , $\Delta_{NACK}$ and $\Delta_{CQI}$ = 30/15 with $\beta_{hs}$ = 30/15 * $\beta_c$ . Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0). Note 3: DPDCH is not configured, therefore the $\beta_c$ is set to 1 and $\beta_d$ = 0 by default. Note 4: $\beta_{ed}$ can not be set directly; it is set by Absolute Grant Value. 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										

#### 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 ses	6	
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	
Modulation			QPSK	
Note 1: The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table.  Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and				

constellation version 0 shall be used.

Radiated method:

ANSI/TIA 603-D section 2.2.17

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## **Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2015-05-09	2016-05-09
Sunol Sciences	Antenna	JB3	A060611-3	2014-11-06	2017-11-05
HP	Amplifier	8447E	2434A02181	2015-09-01	2016-09-01
R&S	Spectrum Analyzer	FSEM	DE31388	2015-05-09	2016-05-09
ETS LINDGREN	Horn Antenna	3115	000 527 35	2013-09-06	2016-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2015-02-19	2016-02-19
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	2013-09-06	2016-09-06

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#### **Test Data**

#### **Environmental Conditions**

Temperature:	25.7 °C
Relative Humidity:	55%
ATM Pressure:	100.1 kPa

The testing was performed by Allen Qiao on 2015-09-07

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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 Power**

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

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	Channel	Peak Output Power (dBm)						
Band	No.	GSM	GPRS 1 TX Slot	GPRS 2 TX Slot	GPRS 3 TX Slot	GPRS 4 TX Slot		
	128	32.40	32.37	30.69	28.96	27.03		
Cellular	190	32.50	32.51	30.81	29.01	27.07		
	251	32.50	32.55	30.87	29.03	27.06		
	512	29.30	29.35	27.19	25.72	23.72		
PCS	661	29.10	29.09	27.04	25.59	23.66		
	810	29.00	28.97	26.94	25.48	23.54		

#### WCDMA Band II

			Aver	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	22.59	2.64	22.24	3.04	22.56	2.80
	1	20.01	2.99	20.19	3.19	20.28	2.53
HSDPA	2	20.48	2.64	19.74	3.71	20.62	3.44
НЗДРА	3	20.08	2.52	20.25	3.44	20.75	3.48
	4	19.96	2.50	20.53	3.46	19.83	3.34
4	1	19.81	2.45	20.00	3.76	20.14	2.51
DC-HSDPA	2	19.66	2.90	19.83	3.59	19.67	3.29
DC-HSDPA	3	19.76	3.16	20.40	3.07	19.99	2.98
	4	20.03	2.74	20.31	2.93	19.87	3.46
	1	20.12	2.78	20.25	2.86	20.15	3.52
	2	20.11	2.68	20.15	2.86	20.25	3.26
HSUPA	3	20.23	2.64	19.85	3.20	20.38	2.69
	4	19.33	3.18	20.00	2.91	20.20	2.86
	5	19.62	2.47	19.94	3.11	19.84	3.01
HSPA+	1	19.36	2.88	20.05	3.23	19.75	3.39

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		Average Output Power (dBm)								
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	23.41	3.20	23.69	2.60	23.17	2.60			
	1	21.19	3.95	21.67	3.40	22.09	2.35			
HSDPA	2	21.20	3.76	22.02	3.13	22.07	2.91			
нѕрра	3	21.66	3.11	21.47	3.14	21.71	2.88			
	4	21.63	3.78	21.39	2.54	22.44	2.40			
	1	20.93	3.08	21.41	2.65	21.78	3.13			
DC-HSDPA	2	21.06	3.01	21.48	2.56	21.88	2.55			
рс-парра	3	20.84	3.23	21.15	3.13	21.56	2.78			
	4	21.41	3.29	21.22	2.44	21.72	2.85			
	1	21.34	3.93	21.58	2.80	21.57	3.21			
	2	20.59	3.74	21.73	2.70	21.79	2.84			
HSUPA	3	21.06	3.65	21.40	3.28	21.57	3.16			
	4	20.79	3.91	21.58	2.84	21.32	3.28			
	5	20.56	3.89	21.36	2.94	22.21	3.03			
HSPA+	1	21.23	3.67	21.13	3.04	21.48	2.48			

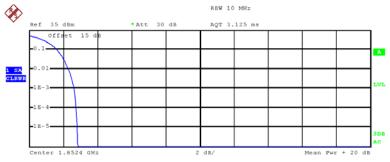
Note: peak-to-average ratio (PAR) <13 dB.

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#### Peak-to-average ratio (PAR)

#### WCDMA Band II

#### **Low Channel**



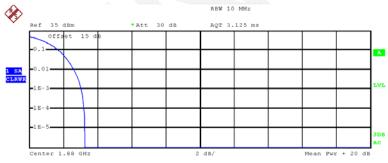
Complementary Cumulative Distribution Function (100000 samples)

Trace 1
Mean 22.15 dBm
Peak 24.99 dBm
Crest 2.84 dB

10 % 1.64 dB 1 % 2.32 dB .1 % 2.64 dB .01 % 2.76 dB

Date: 7.SEP.2015 09:52:45

#### **Middle Channel**



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

Mean 22.28 dBm Peak 25.56 dBm Crest 3.27 dB 10 % 1.76 dB 1 % 2.64 dB .1 % 3.04 dB

3.20 dB

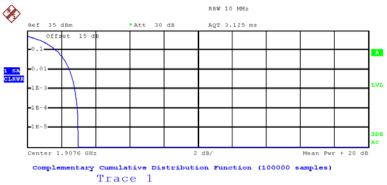
Date: 7.SEP.2015 09:52:17

.01 %

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#### **High Channel**

Report No.: RDG150828004-00C



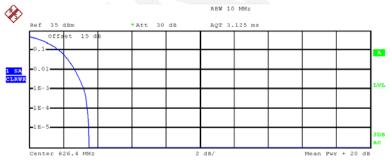
Mean 21.36 dBm Peak 24.36 dBm Crest 2.99 dB

10 % 1.72 dB 1 % 2.48 dB .1 % 2.80 dB .01 % 2.96 dB

Date: 7.SEP.2015 09:52:00

#### WCDMA Band V

#### **Low Channel**



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

Mean 23.33 dBm
Peak 26.83 dBm
Crest 3.49 dB

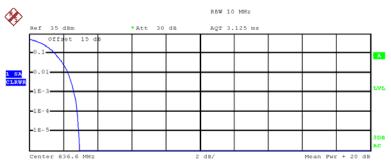
10 % 1.76 dB
1 % 2.68 dB
.1 % 3.20 dB
.01 % 3.40 dB

Date: 7.SEP.2015 09:53:32

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#### **Middle Channel**

Report No.: RDG150828004-00C



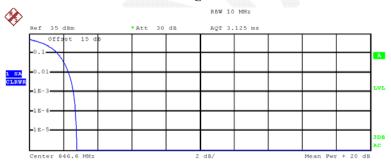
Complementary Cumulative Distribution Function (100000 samples)

Trace 1
Mean 23.47 dBm
Peak 26.40 dBm
Crest 2.93 dB

10 % 1.52 dB 1 % 2.28 dB .1 % 2.60 dB .01 % 2.80 dB

Date: 7.SEP.2015 09:53:18

#### **High Channel**



Complementary Cumulative Distribution Function (100000 samples)

Trace 1
Mean 22.78 dBm
Peak 25.56 dBm
Crest 2.78 dB

10 % 1.68 dB 1 % 2.32 dB .1 % 2.60 dB .01 % 2.72 dB

Date: 7.SEP.2015 09:53:42

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Receiver		Sı	Substituted Method					
Frequency (MHz)	Polar (H/V)	Polar Reading	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	93.48	18.6	0.0	1	17.6	38.50	20.9
836.600	V	103.01	31.2	0.0	1	30.2	38.50	8.3
WCDMA Band V_Middle Channel								
836.600	Н	85.45	10.5	0.0	1	9.5	38.5	29.0
836.600	V	94.24	22.4	0.0	1	21.4	38.5	17.1

	Descione		Substituted Method			A los a losés	Limit (dBm)	Margin (dB)
Frequency (MHz)	$  (\Pi/V)  $ $  (\pi \pi)  $ $  (evel   (fain  $	Cable Loss (dB)	Absolute Level (dBm)					
PCS 1900_Middle Channel								
1880.000	Н	84.72	13.1	11.7	1.4	23.4	33.0	9.6
1880.000	V	89.67	18.2	11.7	1.4	28.5	33.0	4.5
WCDMA Band II_Middle Channel								
1880.000	Н	77.61	6	11.7	1.4	16.3	33.0	16.7
1880.000	V	82.82	11.4	11.7	1.4	21.7	33.0	11.3

#### Note:

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<sup>1)</sup> 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

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

Report No.: RDG150828004-00C

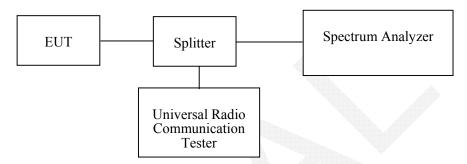
#### **Applicable Standard**

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	2015-05-09	2016-05-09

<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).

#### **Test Data**

#### **Environmental Conditions**

Temperature:	26.4 °C
Relative Humidity:	59 %
ATM Pressure:	100.1 kPa

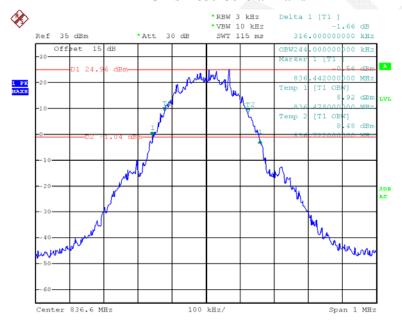
The testing was performed by Allen Qiao on 2015-09-07.

Test Mode: Transmitting

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

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

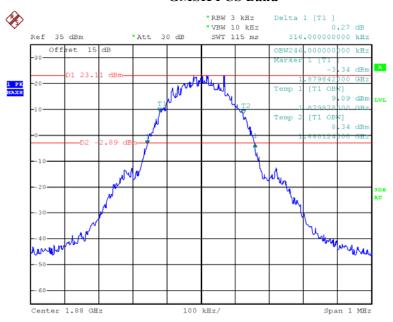


Date: 7.SEP.2015 09:29:42

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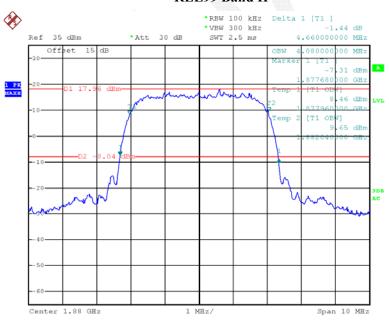
### **GMSK PCS Band**

Report No.: RDG150828004-00C



Date: 7.SEP.2015 11:58:51

#### **REL99 Band II**

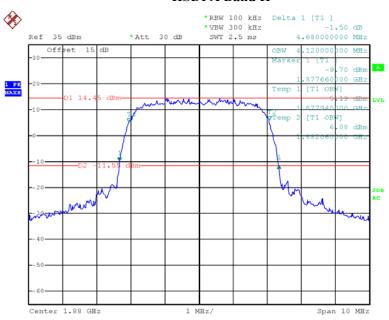


Date: 7.SEP.2015 09:49:35

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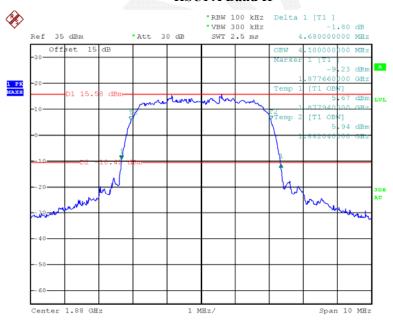
#### **HSDPA Band II**

Report No.: RDG150828004-00C



Date: 7.SEP.2015 10:15:11

#### **HSUPA Band II**

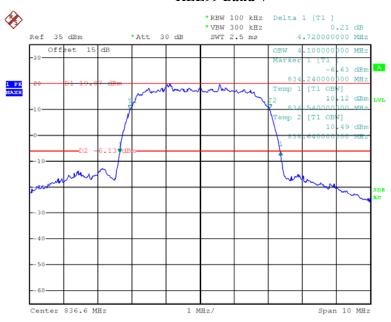


Date: 7.SEP.2015 10:12:45

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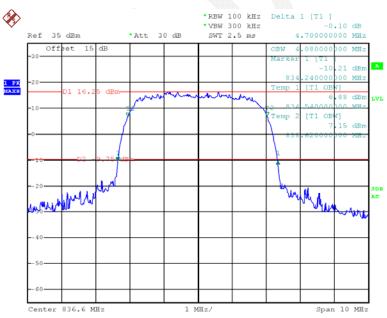
#### **REL99 Band V**

Report No.: RDG150828004-00C



Date: 7.SEP.2015 10:00:40

#### **HSDPA Band V**

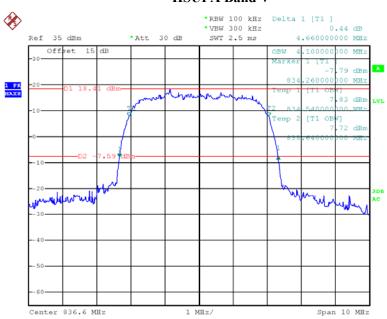


Date: 7.SEP.2015 10:18:34

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#### **HSUPA Band V**

Report No.: RDG150828004-00C



Date: 7.SEP.2015 10:08:36

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

Report No.: RDG150828004-00C

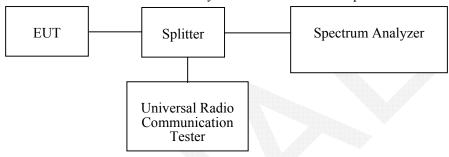
#### **Applicable Standard**

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	2015-05-09	2016-05-09

<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).

#### **Test Data**

#### **Environmental Conditions**

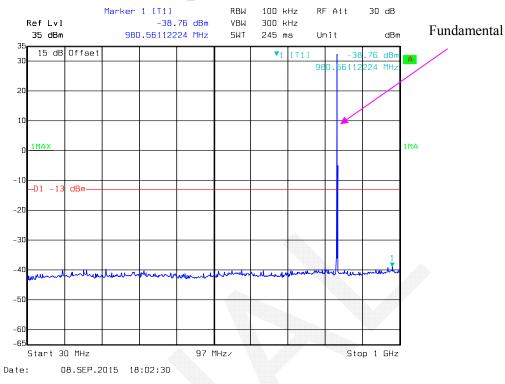
Temperature:	26.4 °C		
Relative Humidity:	59 %		
ATM Pressure:	100.3 kPa		

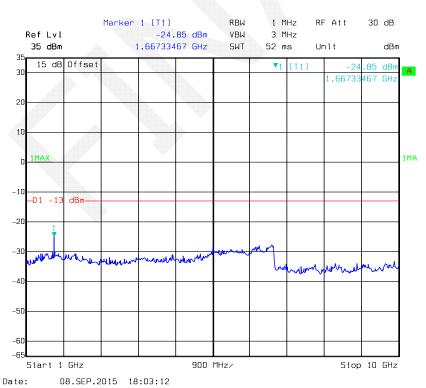
The testing was performed by Allen Qiao on 2015-09-08.

Please refer to the following plots.

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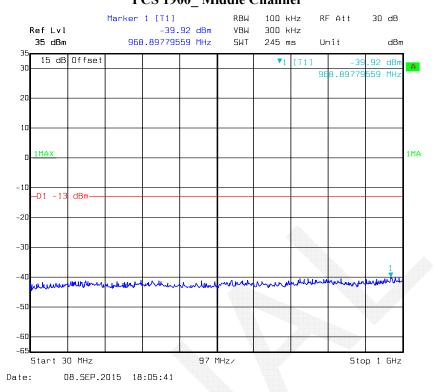


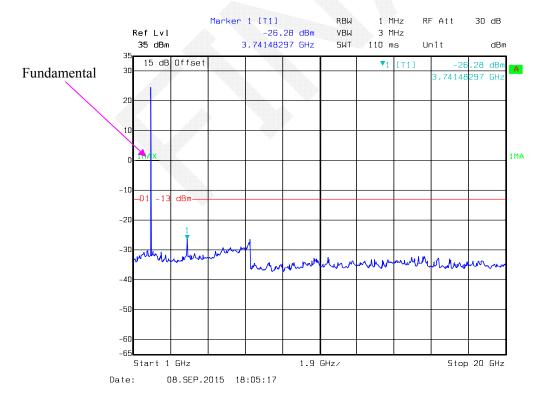


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## PCS 1900\_ Middle Channel

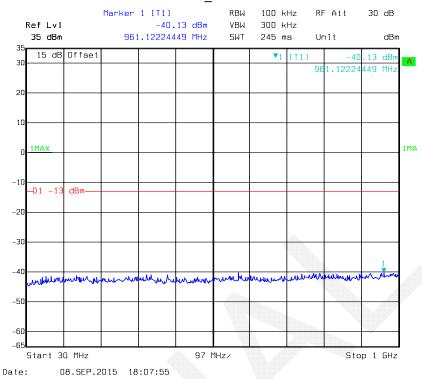
Report No.: RDG150828004-00C

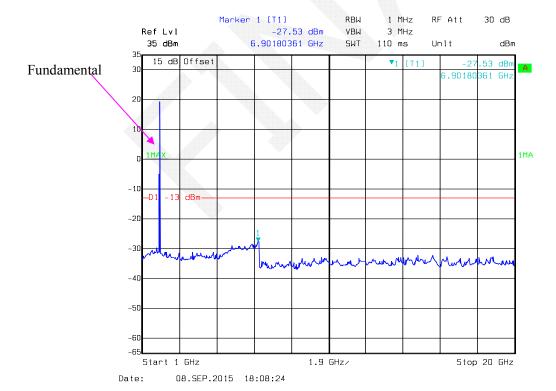




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#### **REL99 Band II\_ Middle Channel**

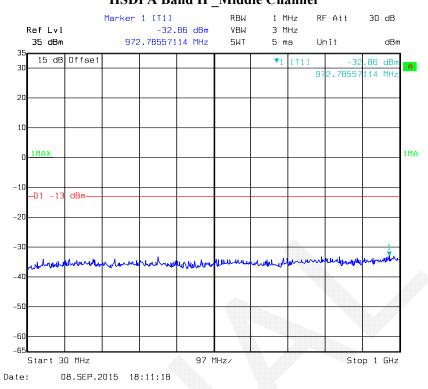




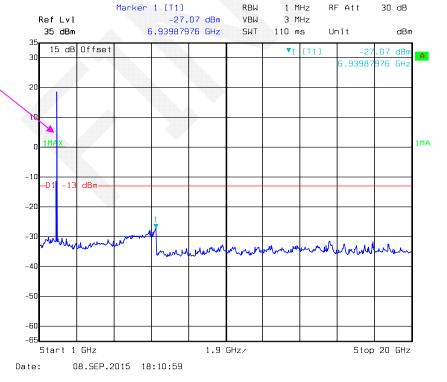
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## HSDPA Band II \_Middle Channel

Report No.: RDG150828004-00C

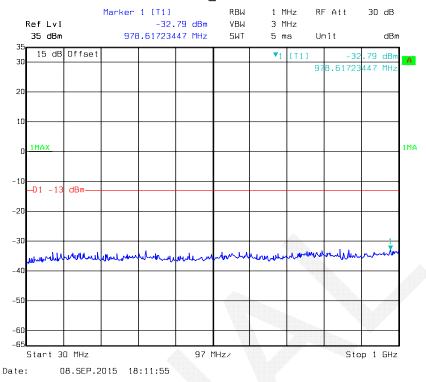




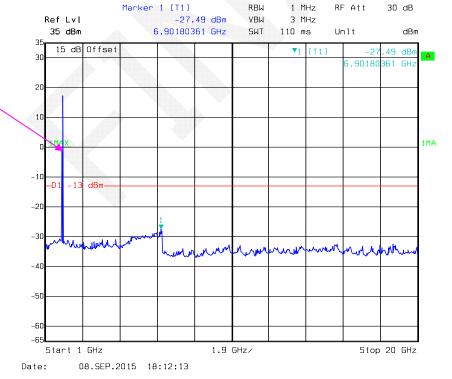


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### **HSUPA Band II \_ Middle Channel**

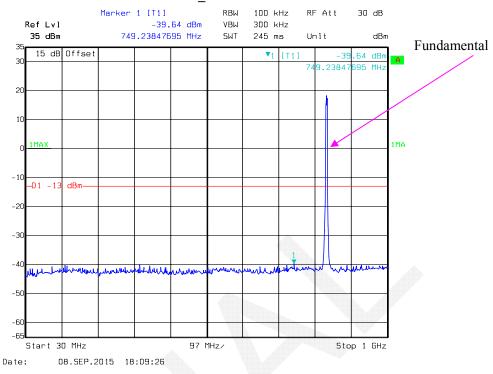


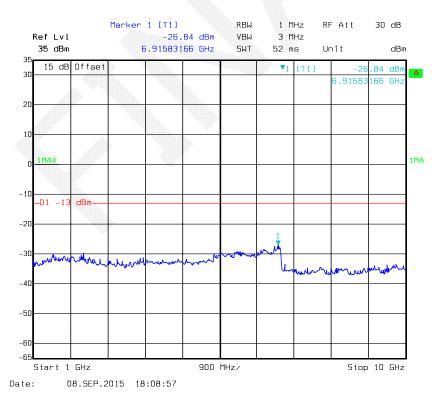




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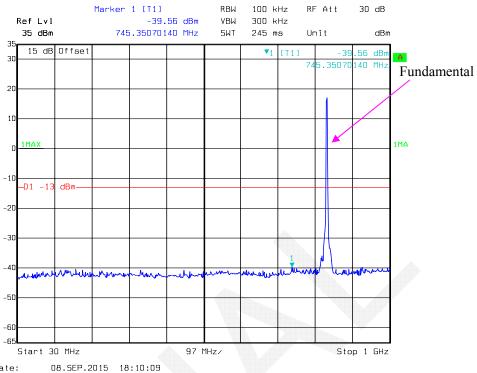


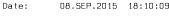


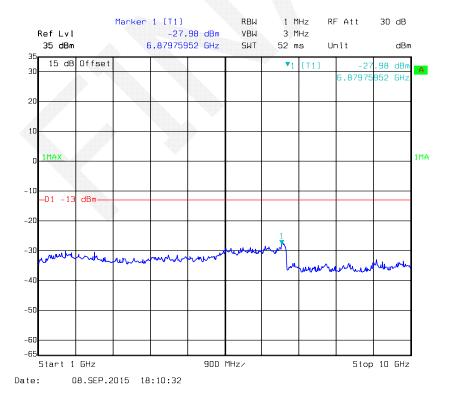


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#### **HSDPA Band V\_Middle Channel**

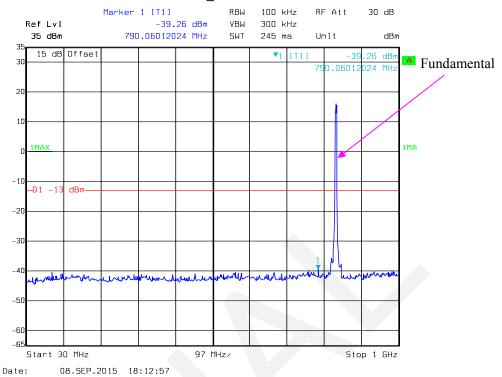


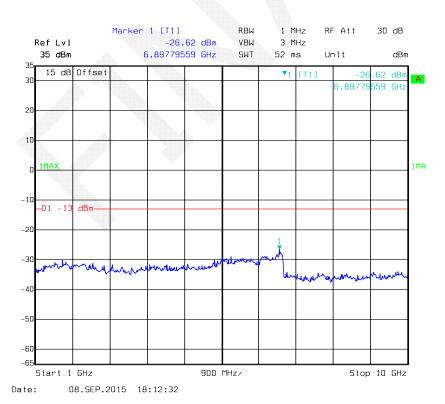




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#### **HSUPA Band V\_Middle Channel**





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

Report No.: RDG150828004-00C

## **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**

		VIII III			
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2015-05-09	2016-05-09
Sunol Sciences	Antenna	JB3	A060611-3	2014-07-28	2017-07-27
HP	Amplifier	8447E	2434A02181	2014-09-01	2015-09-01
R&S	Spectrum Analyzer	FSEM	DE31388	2015-05-09	2016-05-09
ETS LINDGREN	Horn Antenna	3115	000 527 35	2012-09-06	2015-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2015-02-19	2016-02-19
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	2012-09-06	2015-09-06

<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:	27.3 °C
Relative Humidity:	46 %
ATM Pressure:	100 kPa

The testing was performed by Allen Qiao on 2015-09-06.

EUT Operation Mode: Transmitting

#### Cellular Band

#### 30 MHz-10 GHz:

		D	S	ubstituted Me	thod	A la l 4 .		
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	S.G. Level (dBm)	Level Gain		Absolute Level (dBm)	Limit (dBm)	Margin (dB)
	Frequency:836.600 MHz							
1673.200	Н	51.35	-49.7	10.6	1.5	-40.6	-13.0	27.6
1673.200	V	53.05	-48.3	10.6	1.5	-39.2	-13.0	26.2
2509.800	Н	52.61	-45.4	13.1	2.8	-35.1	-13.0	22.1
2509.800	V	54.64	-42.5	13.1	2.8	-32.2	-13.0	19.2

Report No.: RDG150828004-00C

For below 1GHz, all spurious emissions are 20dB below the limit or are on the system noise floor level.

### **WCDMA Band V**

		Substituted Method  Absolute						
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	S.G. Level (dBm)	Level Gain		Absolute Level (dBm)	Limit (dBm)	Margin (dB)
	Frequency:836.600 MHz							
1673.200	Н	43.03	-58	10.6	1.5	-48.9	-13.0	35.9
1673.200	V	45.67	-55.7	10.6	1.5	-46.6	-13.0	33.6

For below 1GHz, all spurious emissions are 20dB below the limit or are on the system noise floor level.

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### **PCS Band**

Report No.: RDG150828004-00C

#### 30 MHz-20 GHz:

		Dagairon	Sı	ubstituted Me	thod	Abaaluta			
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	S.G. Antenna Level Gain (dBm) (dBd/dBi)		Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)	
			Frequen	cy:1880.000 N	ИHz				
3760.000	Н	56.40	-37.9	13.8	2.9	-27.0	-13.0	14.0	
3760.000	V	58.19	-34.9	13.8	2.9	-24.0	-13.0	11.0	

For below 1GHz, all spurious emissions are 20dB below the limit or are on the system noise floor level.

#### **WCDMA Band II**

		Descione	Sı	ubstituted Me	thod	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)
			Frequen	cy:1880.000 N	ИHz			
3760.000	Н	40.83	-53.5	13.8	2.9	-42.6	-13.0	29.6
3760.000	V	42.07	-51	13.8	2.9	-40.1	-13.0	27.1

For below 1GHz, all spurious emissions are 20dB below the limit or are on the system noise floor level.

#### 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.

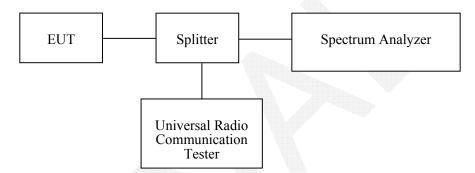
Report No.: RDG150828004-00C

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.



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

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2015-05-09	2016-05-09

<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).

#### **Test Data**

#### **Environmental Conditions**

Temperature:	26.4 °C
Relative Humidity:	59 %
ATM Pressure:	100.1 kPa

The testing was performed by Allen Qiao on 2015-09-07.

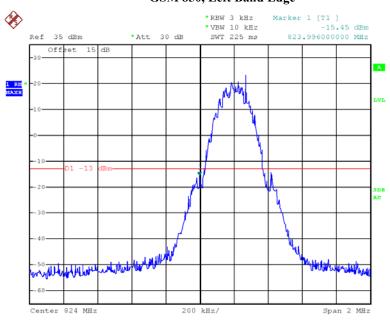
Test Mode: Transmitting

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

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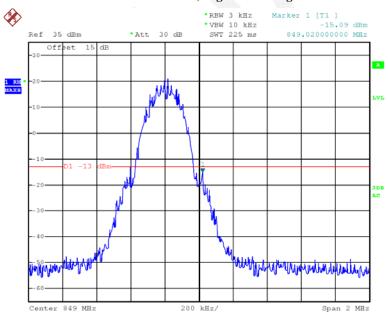
## **GSM 850, Left Band Edge**

Report No.: RDG150828004-00C



Date: 7.SEP.2015 09:31:09

## GSM 850, Right Band Edge

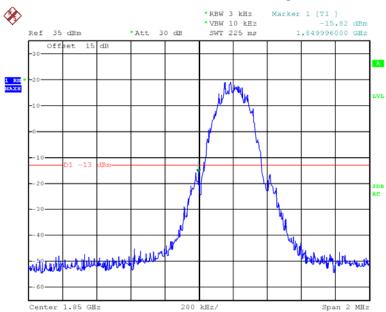


Date: 7.SEP.2015 09:31:51

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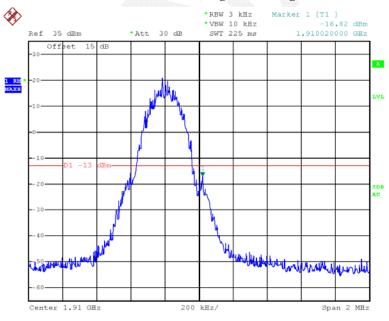
## GSM 1900, Left Band Edge

Report No.: RDG150828004-00C



Date: 7.SEP.2015 11:59:47

#### GSM 1900, Right Band Edge

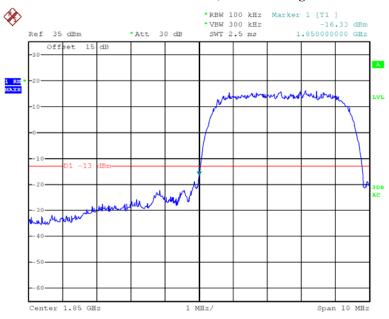


Date: 7.SEP.2015 12:00:15

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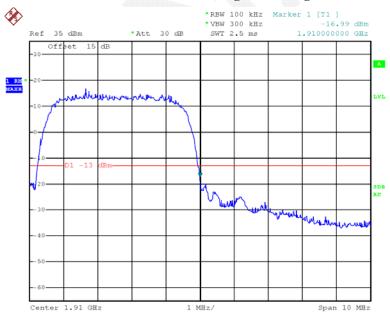
## **REL99 Band II, Left Band Edge**

Report No.: RDG150828004-00C



Date: 7.SEP.2015 09:50:24

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

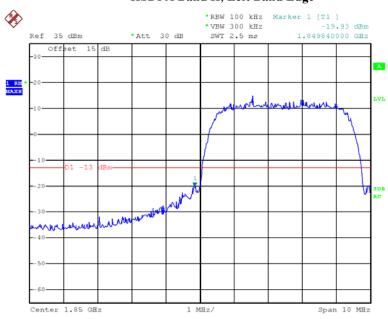


Date: 7.SEP.2015 09:50:46

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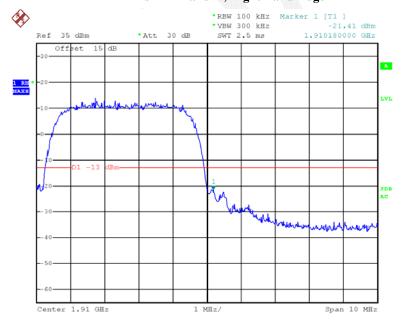
## **HSDPA Band II, Left Band Edge**

Report No.: RDG150828004-00C



Date: 7.SEP.2015 10:15:50

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

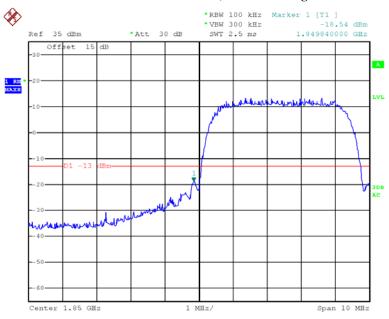


Date: 7.SEP.2015 10:16:19

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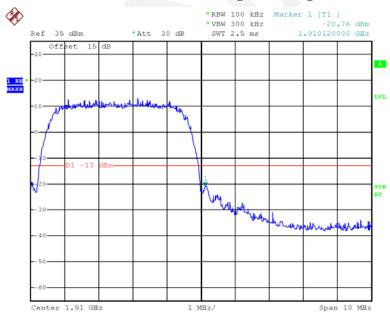
## **HSUPA Band II, Left Band Edge**

Report No.: RDG150828004-00C



Date: 7.SEP.2015 10:10:41

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

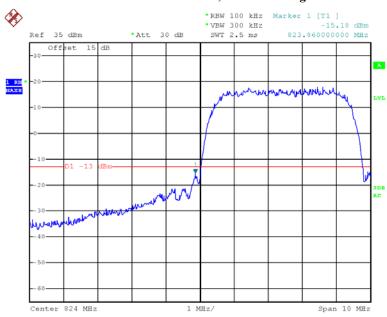


Date: 7.SEP.2015 10:10:11

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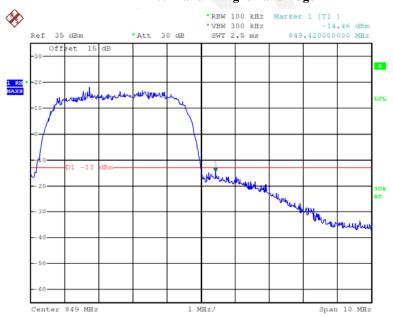
## REL99 Band V, Left Band Edge

Report No.: RDG150828004-00C



Date: 7.SEP.2015 09:56:11

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

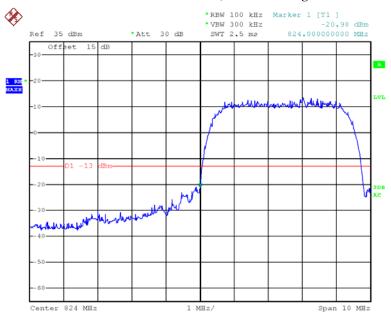


Date: 7.SEP.2015 09:56:37

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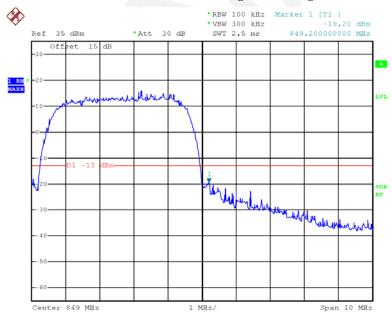
## **HSDPA Band V, Left Band Edge**

Report No.: RDG150828004-00C



Date: 7.SEP.2015 10:17:10

#### HSDPA Band V, Right Band Edge

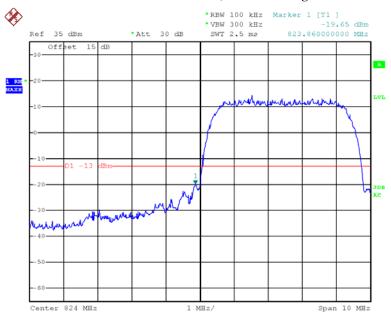


Date: 7.SEP.2015 10:16:51

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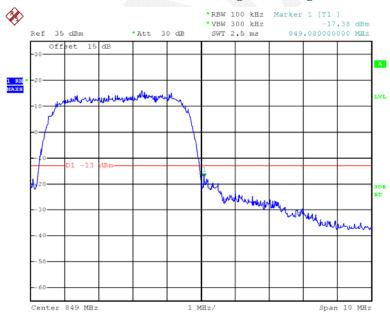
## **HSUPA Band V, Left Band Edge**

Report No.: RDG150828004-00C



Date: 7.SEP.2015 10:09:24

#### HSUPA Band V, Right Band Edge



Date: 7.SEP.2015 10:09:44

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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:

Г	TF 1	•	Tr '44	•	41	D 11'	N f 1 '1 C	•
Frequency	Lolerance f	or	Transmitters	ın	tne	Public	Mobile Serv	zices :

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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

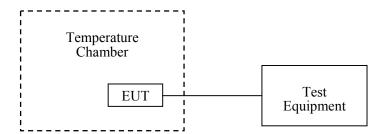
According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

#### **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	2015-08-01	2016-08-01
R&S	Universal Radio Communication Tester	CMU200	109 038	2015-05-09	2016-05-09

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#### **Test Data**

#### **Environmental Conditions**

Temperature:	25.7 °C
Relative Humidity:	55%
ATM Pressure:	100.1kPa

The testing was performed by Allen Qiao on 2015-09-07.

## Cellular Band (Part 22H)

G	GMSK, Middle Channel, f <sub>c</sub> = 836.6 MHz					
Temperature	Voltage	Frequency Error	Frequency Error	Limit		
℃	$V_{DC}$	Hz	ppm	ppm		
-30		-13	-0.016			
-20		-10	-0.012			
-10		-11	-0.013			
0		-16	-0.019			
10	3.7	-12	-0.014			
20		-16	-0.019	2.5		
30		-13	-0.016			
40		-11	-0.013			
50		-10	-0.012			
25	3.5	-14	-0.017			
25	4.2	-17	-0.020			

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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).

Middle Channel, f <sub>c</sub> = 836.6 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
င	V <sub>DC</sub>	Hz	ppm	ppm
-30		12	0.014	
-20		13	0.016	
-10		11	0.013	
0		12	0.014	
10	3.7	16	0.019	
20		15	0.018	2.5
30		10	0.012	
40		14	0.017	
50		13	0.016	<i>A</i>
25	3.5	16	0.019	
23	4.2	11	0.013	

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## **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		13	0.016	
-20		10	0.012	
-10		12	0.014	
0		13	0.016	
10	3.7	14	0.017	
20		11	0.013	2.5
30		10	0.012	
40		13	0.016	
50		12	0.014	
25	3.5	14	0.017	
25	4.2	17	0.020	

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## WCDMA Band V: HSUPA

Middle Channel, f <sub>c</sub> = 836.6 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
င	V <sub>DC</sub>	Hz	ppm	ppm
-30		16	0.019	
-20		12	0.014	
-10		16	0.019	
0		11	0.013	
10	3.7	10	0.012	
20		13	0.016	2.5
30		14	0.017	
40		17	0.020	
50		13	0.016	
25	3.5	14	0.017	
25	4.2	12	0.014	

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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
${\mathbb C}$	$V_{DC}$	Hz	ppm	
-30		-10	-0.005	
-20		-12	-0.006	
-10		-13	-0.007	
0		-15	-0.008	
10	3.7	-11	-0.006	
20		-15	-0.008	Pass
30		-17	-0.009	
40		-11	-0.006	
50		-18	-0.010	
25	3.5	-12	-0.006	
25	4.2	-19	-0.010	

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Middle Channel, f <sub>c</sub> = 1880.0 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
C	$V_{DC}$	Hz	ppm	
-30		15	0.008	
-20		13	0.007	
-10		11	0.006	
0		14	0.007	
10	3.7	10	0.005	
20		12	0.006	Pass
30		17	0.009	
40		18	0.010	
50		14	0.007	1
25	3.5	11	0.006	
25	4.2	15	0.008	

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## **WCDMA Band II: HSDPA**

	Middle Channel, f <sub>c</sub> = 1880.0 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result	
°C	$V_{DC}$	Hz	ppm		
-30		18	0.010		
-20		14	0.007		
-10		16	0.009		
0		18	0.010		
10	3.7	13	0.007		
20		16	0.009	Pass	
30		15	0.008		
40		13	0.007		
50		17	0.009		
25	3.5	14	0.007		
25	4.2	16	0.009		

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	Middle Channel, f <sub>c</sub> = 1880.0 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result	
°C	V <sub>DC</sub>	Hz	ppm		
-30		13	0.007		
-20		14	0.007		
-10		17	0.009		
0		14	0.007		
10	3.7	18	0.010		
20		11	0.006	Pass	
30		10	0.005		
40		17	0.009		
50		11	0.006	4	
25	3.5	12	0.006		
25	4.2	18	0.010		

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## **DECLARATION LETTER**

#### **Declaration of Alteration**

To Whom It May Concern,

We, Posh Mobile Limited, hereby declare that there are some differences between our Multiple Models and testing products. Details as below:

(This is for your reference only.)

	Name		Primo Plus			
Products	Bran	d	POSH			
Description	Manu	ufacturer	Shenzhen Pe	osh Mobile Limited		
	Proje	ct No.	RDG150828004, RDG150828004-20			
			Differen	ces Description		
Testing Pro	ducts	Multip	ole Models	Differences Items	Details	
C353A		C353B		Model name	They are same motherboard, and just have the different model name.	

Notes: Testing products-the products tested by BACL
Multiple Model- have the same or similar appearance, structure, PCB, Material
and function to the testing products

Besides the differences in the table above, we declare the products are identical We guarantee all the information provided above is true, and notice that we'll bear all the consequences caused by any false information or concealing

Best Regards,

Signature:

Print Name: K.N. Chong

Title: Manager

ST MORE

ADD: 1011A, 10/F., Harbour Centre Tower 1, No.1 Hok Cheung St., Hung Hom, Kowloon, Hong Kong 31889834 Fax: (852) 39044979 Email:poshmobileltd@yahoo.com

Tel: (852)

Report No.: RDG150828004-00C

QPDG004R32 Version1.0 (20140717)