

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

For

Posh Mobile Limited

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FCC ID: 2ABN6X511

Report Type: Product Type: Original Report **KICK Test Engineer:** Dean Liu Report Number: RDG150701001-00C **Report Date:** 2015-07-25 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: *X511A (FCC ID: 2ABN6X511)* (the "EUT") in this report was a *KICK*, which was measured approximately: 14.6 cm (L) x 7.2 cm (W) x 0.7 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 X511A, X511B are electrically identical, the difference between them is just the model name, we selected X511A 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: 150701001 (Assigned by BACL, Dongguan). The EUT was received on 2015-07-03.

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: 2ABN6X511 FCC Part 15C DSS submissions with FCC ID: 2ABN6X511 FCC Part 15C DTS submissions with FCC ID: 2ABN6X511

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 facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 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

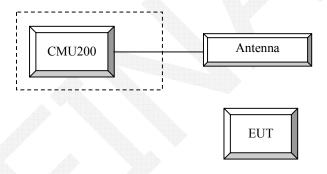
No modification was made to the EUT.

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

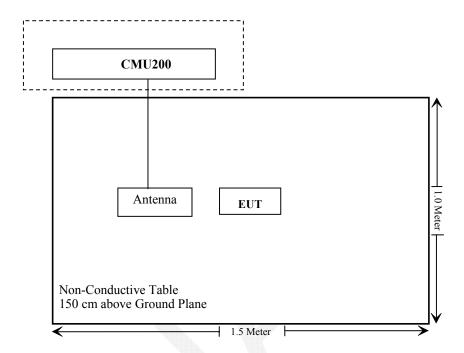
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Configuration of Test Setup



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Block Diagram of Test Setup



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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: RDG150701001-20.



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

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

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 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	Power Control Algorithm		Algorithm2				
WCDMA	βς	2/15	12/15	15/15	15/15		
General Settings	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	Ack-Nack repetition factor	3					
Settings	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								
	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	-		8		Įr –			
	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	I 11 E	E-TFCI E-TFCI 11 E					
HSUPA		E-TFC		11		TPO 4			
Specific		E-TF		E-TFCI		CI 67			
Settings		E-TFCI		PO4		I PO 18			
Settings	D C E EC1	E-TF		E-TFCI		CI 71			
	Reference E_FCls	E-TFC		92 E-TFCI		I PO23			
		E-TFC E-TFC		PO 18		CI 75 I PO26			
		E-1FC		PO 18	E-1FC E-TF				
		E-TFCI				I PO 27			
		L-11 CI	1021		L-11 C	11021			

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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 _c (Note3)	β _d	βнs (Note1)	βес	β _{ed} (2xSF2) (Note 4)	β _{ed} (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 _{ed} 1: 30/15 β _{ed} 2: 30/15	β _{ed} 3: 24/15 β _{ed} 4: 24/15	3.5	2.5	14	105	105
Note 2 Note 3 Note 4	Note 1: Δ_{ACK} , Δ_{NACK} and Δ_{CQI} = 30/15 with β_{hs} = 30/15 * β_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 β_c is set to 1 and β_d = 0 by default. Note 4: β_{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	6			
		ses	0			
Informati	on Bit Payload (N_{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		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 transmissio	n is limited t	o 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	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

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Test Data

Environmental Conditions

Temperature:	25.7~25.9 °C
Relative Humidity:	55~57%
ATM Pressure:	100.1~100.4 kPa

The testing was performed by Dean Liu on 2015-07-09 and 2015-07-25.

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^{*} 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	32.01	32.14	31.18	29.06	27.75	
Cellular	190	32.25	32.36	31.42	29.26	28.04	
	251	32.45	32.50	31.63	29.52	28.16	
	512	29.40	29.42	28.38	26.35	25.14	
PCS	661	29.28	29.28	28.27	26.24	25.04	
	810	29.29	29.28	28.37	26.40	25.14	

WCDMA Band

			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	22.29	2.84	22.08	2.76	21.45	2.92
	1	21.51	2.64	21.03	2.84	20.69	2.32
HSDPA	2	21.65	2.75	21.30	2.93	20.85	2.45
HSDPA	3	21.57	2.59	21.29	2.85	20.71	2.67
	4	21.55	2.61	21.51	2.90	20.72	2.56
	1	21.63	2.83	21.55	2.86	20.64	2.60
DC-HSDPA	2	21.60	2.75	21.49	2.92	20.71	2.75
DC-HSDPA	3	21.62	2.69	21.58	2.88	20.66	2.52
	4	21.61	2.37	21.44	2.92	20.59	2.61
	1	21.30	2.56	21.08	3.40	20.49	2.40
	2	20.86	2.61	20.57	3.19	20.82	2.49
HSUPA	3	21.43	2.81	21.55	3.07	21.00	2.55
	4	20.53	2.73	20.48	3.02	20.45	2.66
	5	20.64	2.59	21.02	2.95	20.93	2.59
HSPA+	1	21.15	2.71	20.84	2.91	20.44	2.48

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			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	21.67	3.58	21.63	3.62	21.79	3.62
	1	21.00	3.56	20.98	3.64	21.13	3.67
HCDDA	2	21.04	3.50	21.08	3.60	21.19	3.57
HSDPA -	3	21.04	3.50	20.95	3.62	21.21	3.64
	4	21.13	3.64	21.01	3.62	21.14	3.64
	1	21.02	3.56	20.94	3.62	21.11	3.56
DC-HSDPA	2	21.11	3.55	21.03	3.62	21.13	3.64
DC-HSDPA	3	21.04	3.57	20.96	3.57	21.15	3.66
	4	21.03	3.62	21.02	3.54	21.21	3.65
	1	21.09	3.53	21.07	3.62	21.10	3.64
	2	21.02	3.54	21.06	3.67	21.10	3.60
HSUPA	3	21.06	3.56	21.04	3.57	21.24	3.60
	4	21.05	3.53	21.02	3.59	21.17	3.65
	5	21.01	3.63	21.08	3.67	21.24	3.68
HSPA+	1	21.03	3.55	21.02	3.64	21.24	3.65

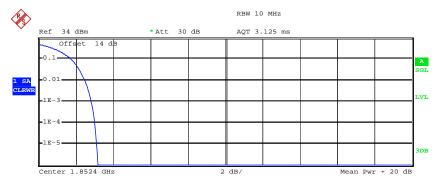
Note: peak-to-average ratio (PAR) <13 dB.

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Peak-to-average ratio (PAR)

WCDMA Band

Low Channel



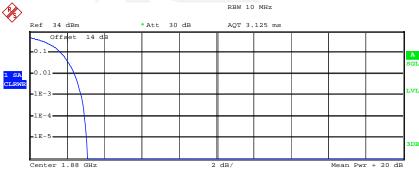
Complementary Cumulative Distribution Function (100000 samples)

Trace 1
Mean 21.09 dBm
Peak 24.27 dBm
Crest 3.18 dB

10% @ 1.76 dB 1% @ 2.48 dB .1% @ 2.84 dB

Date: 9.JUL.2015 18:11:27

Middle Channel



Complementary Cumulative Distribution Function (100000 samples)

Trace 1
Mean 21.18 dBm
Peak 24.27 dBm
Crest 3.10 dB

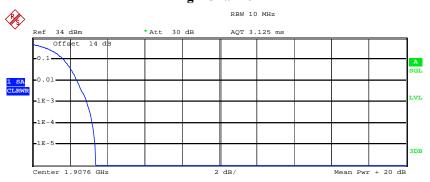
10% @ 1.68 dB
1% @ 2.40 dB
.1% @ 2.76 dB

Date: 9.JUL.2015 18:07:59

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High Channel

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Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 20.32 dBm Peak 23.71 dBm Crest 3.39 dB

10% @ 1.68 dB 1% @ 2.40 dB .1% @ 2.92 dB

Date: 9.JUL.2015 18:12:59

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		Receiver	Sı	Substituted Method				
Frequency Polar (MHz) (H/V)	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	100.48	25.6	0.0	1.0	24.6	38.5	13.9
836.600	V	103.34	31.5	0.0	1.0	30.5	38.5	8.0
WCDMA Band V_Middle Channel								
836.600	Н	87.44	12.5	0.0	1.0	11.5	38.5	27.0
836.600	V	93.51	21.7	0.0	1.0	20.7	38.5	17.8

		D	Sı	ıbstituted Me	ethod	Absolute			
Frequency (MHz)	y Polar Read	Receiver Reading (dBµV)	S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	
	PCS 1900 Middle Channel								
1880.000	Н	87.57	16	11.7	1.4	26.3	33.0	6.7	
1880.000	V	85.24	13.8	11.7	1.4	24.1	33.0	8.9	
	WCDMA Band II_Middle Channel								
1880.000	Н	83.80	12.2	11.7	1.4	22.5	33.0	10.5	
1880.000	V	80.18	8.7	11.7	1.4	19.0	33.0	14.0	

Note:

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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

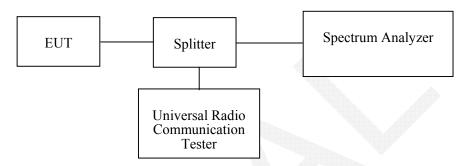
Applicable Standard

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

^{*} 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:	26.3~26.4 °C
Relative Humidity:	57~59 %
ATM Pressure:	99.5~99.6 kPa

The testing was performed by Dean Liu on 2015-07-05& 2015-07-07.

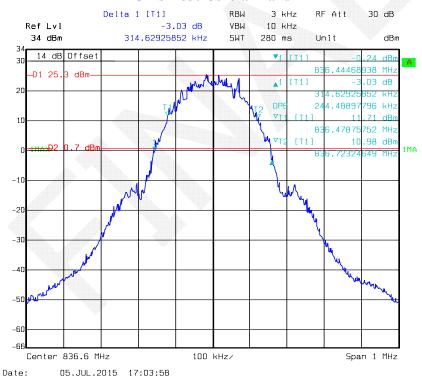
Test Mode: Transmitting

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

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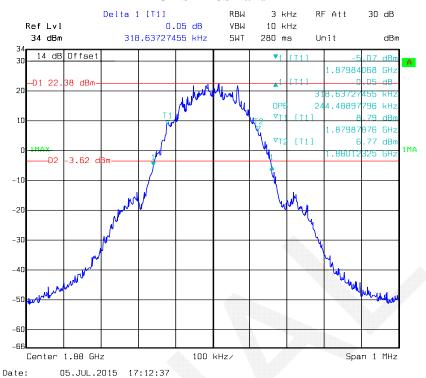
Band	Channel No.	Mode	99% Occupied Bandwidth (kHz)	26 dB Occupied Bandwidth (kHz)
Cellular	190	GSM	244.49	314.63
PCS	661	PCS	244.49	318.64
****	9400	Rel 99	4208.42	4809.62
WCDMA Band	9400	HSDPA	4208.42	4789.58
Duna	9400	HSUPA	4188.38	4789.58
	4183	Rel 99	4168.34	4709.42
WCDMA Band V	4183	HSDPA	4168.34	4729.46
	4183	HSUPA	4168.34	4709.42

GMSK 850 Cellular Band

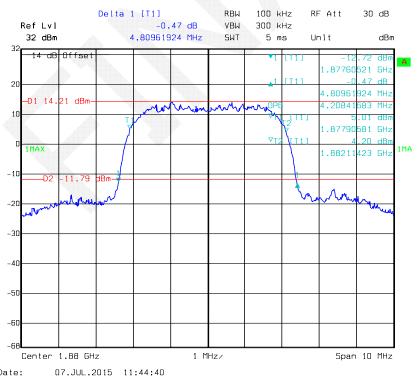


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GMSK PCS Band



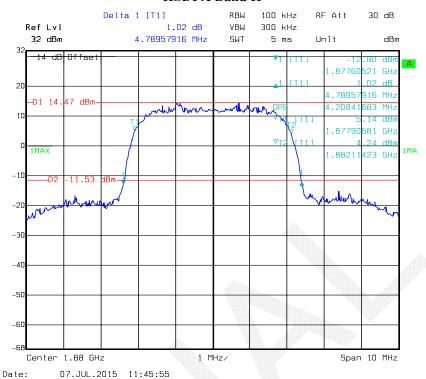
REL99 Band II



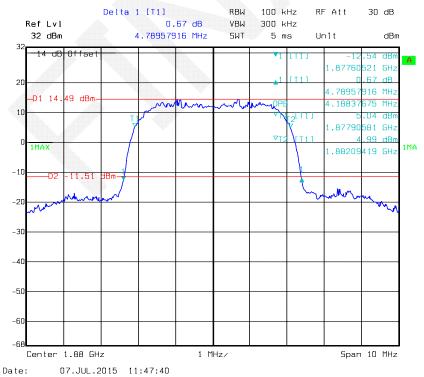
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HSDPA Band II

Report No.: RDG150701001-00C



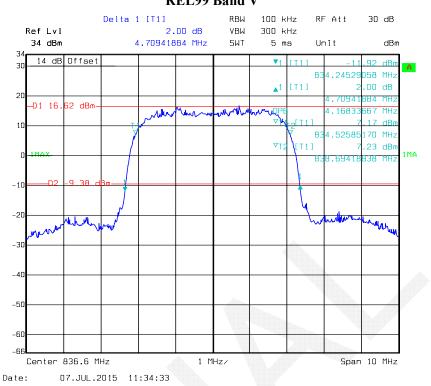
HSUPA Band II



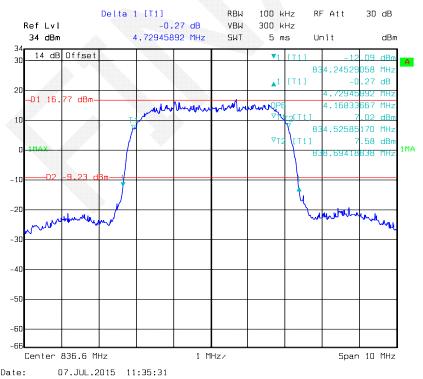
FCC Part 22H/24E Page 24 of 54

REL99 Band V

Report No.: RDG150701001-00C



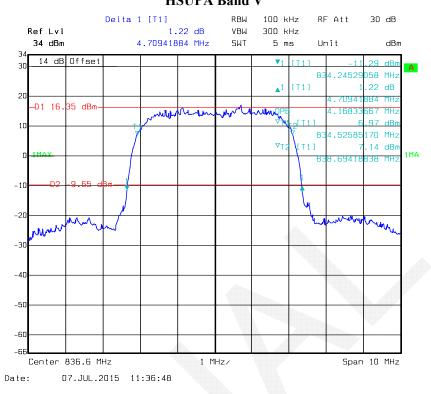
HSDPA Band V



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HSUPA Band V

Report No.: RDG150701001-00C



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

Report No.: RDG150701001-00C

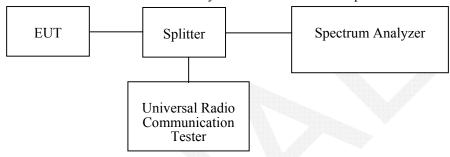
Applicable Standard

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 10th 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

^{*} 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

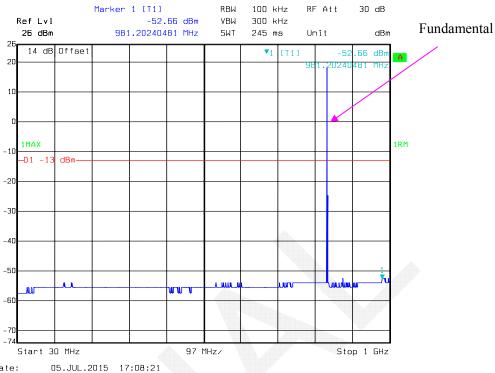
Temperature:	26.3~26.4 °C
Relative Humidity:	57~59 %
ATM Pressure:	99.5~99.6 kPa

The testing was performed by Dean Liu on 2015-07-05& 2015-07-07.

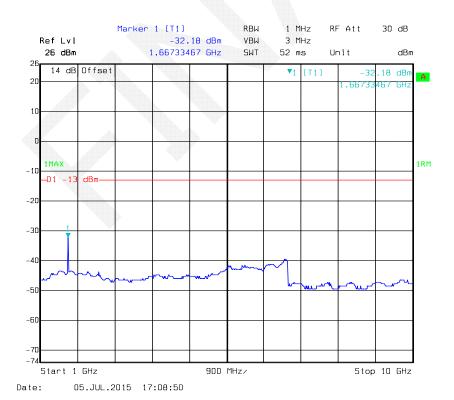
Please refer to the following plots.

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GSM850_Middle Channel



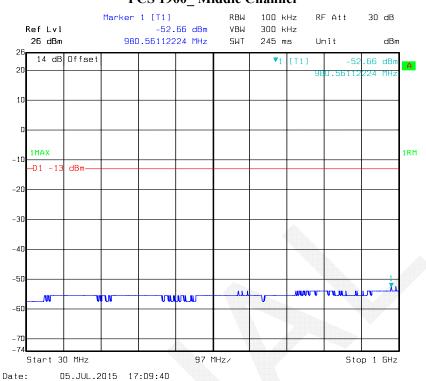
Date:

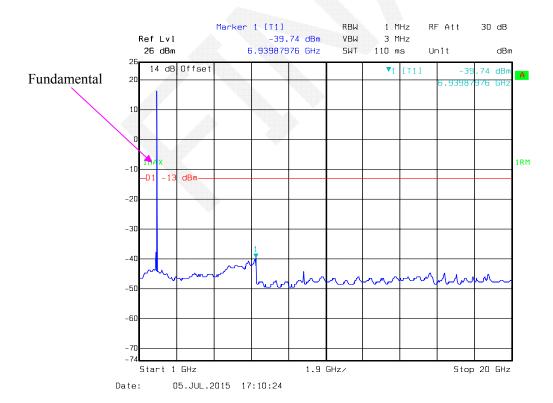


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PCS 1900_ Middle Channel

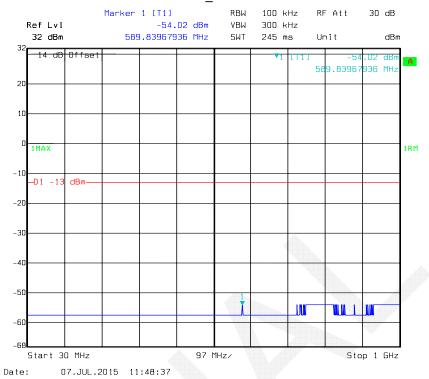
Report No.: RDG150701001-00C

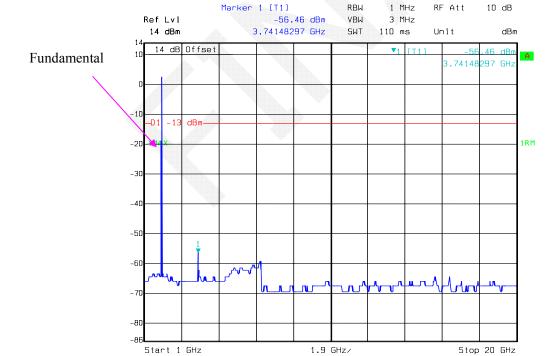




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REL99 Band II_ Middle Channel

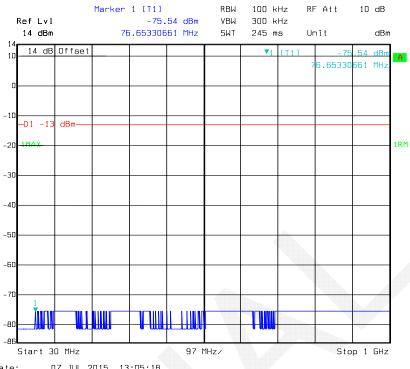




07.JUL.2015 13:04:40

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HSDPA Band II _Middle Channel

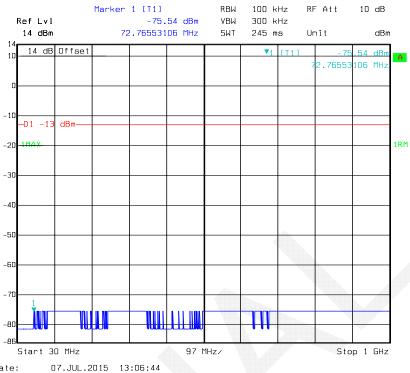


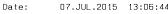
07.JUL.2015 13:05:18 Date:

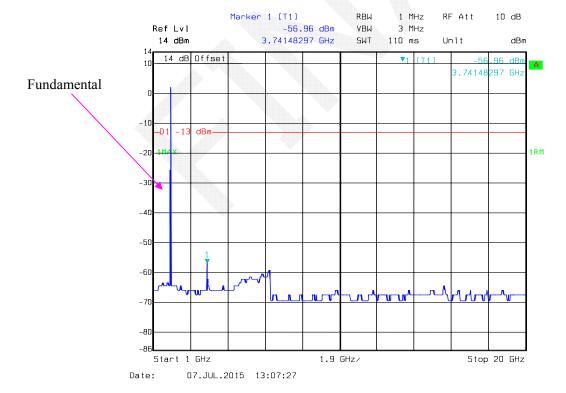


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HSUPA Band II _ Middle Channel

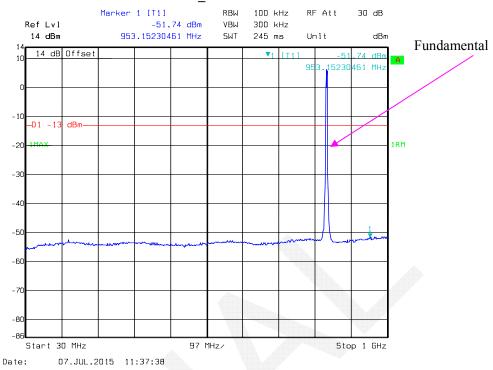


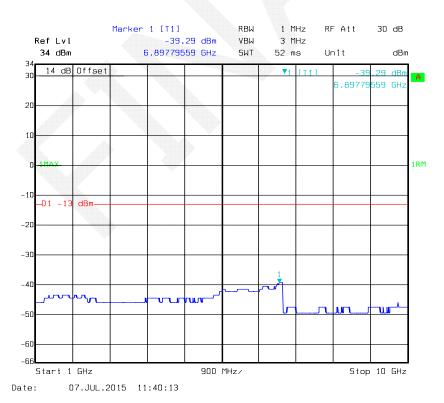




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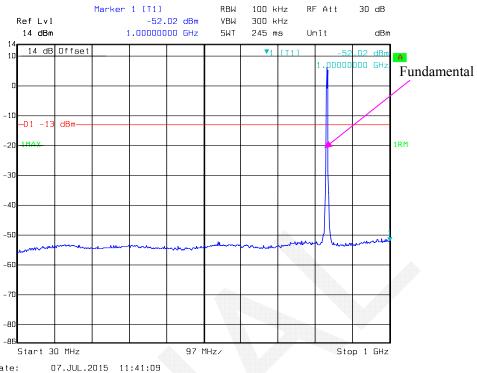






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HSDPA Band V_Middle Channel



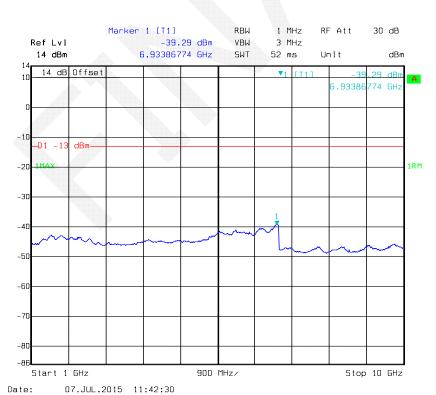
Date:



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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.: RDG150701001-00C

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

		Alcielator.	7000		
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

^{*} 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:	99.5 kPa

The testing was performed by Dean Liu on 2015-07-07.

EUT Operation Mode: Transmitting

30 MHz-10 GHz:

Cellular Band

Report No.: RDG150701001-00C

		D	. Substituted Method					
Frequency (MHz)	Reguing		Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)		
			Freque	ncy:836.600 M	IHz			
1673.200	Н	44.35	-56.7	10.6	1.5	-47.6	-13.0	34.6
1673.200	V	47.54	-53.8	10.6	1.5	-44.7	-13.0	31.7
2509.800	Н	47.69	-50.3	13.1	2.8	-40.0	-13.0	27.0
2509.800	V	49.04	-48.1	13.1	2.8	-37.8	-13.0	24.8

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

WCDMA Band V

		D		Substituted Method							
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	S.G. Level (dBm)	evel Gain Ca		Absolute Level (dBm)	Limit (dBm)	Margin (dB)			
	Frequency:836.600 MHz										
1673.200	Н	36.73	-64.3	10.6	1.5	-55.2	-13.0	42.2			
1673.200	V	38.94	-62.4	10.6	1.5	-53.3	-13.0	40.3			

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

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)			
	Frequency:1880.000 MHz										
3760.000	Н	40.07	-54.2	13.8	2.9	-43.3	-13.0	30.3			
3760.000	V	41.39	-51.7	13.8	2.9	-40.8	-13.0	27.8			

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

WCDMA Band II

		D	S	ubstituted Me	thod	Absolute				
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	S.G. Level (dBm)	Level Gain Cable Loss		Level (dBm)	Limit (dBm)	Margin (dB)		
	Frequency:1880.000 MHz									
3760.000	Н	36.05	-58.2	13.8	2.9	-47.3	-13.0	34.3		
3760.000	V	37.40	-55.7	13.8	2.9	-44.8	-13.0	31.8		

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.

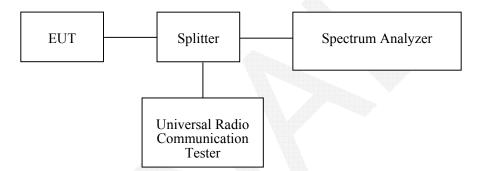
Report No.: RDG150701001-00C

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

^{*} 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:	26.1~26.4 °C
Relative Humidity:	57~59 %
ATM Pressure:	99.4~99.6 kPa

The testing was performed by Dean Liu from 2015-07-05 to 2015-07-07.

Test Mode: Transmitting

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

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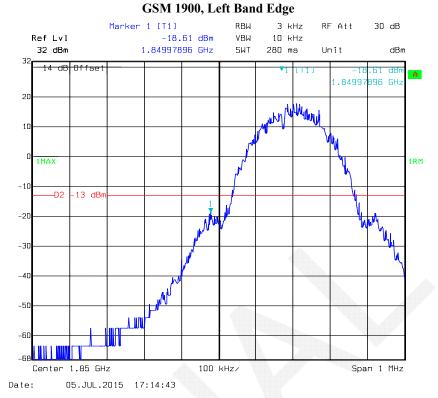
GSM 850, Left Band Edge



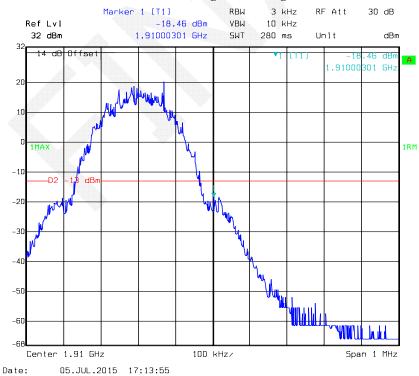
GSM 850, Right Band Edge



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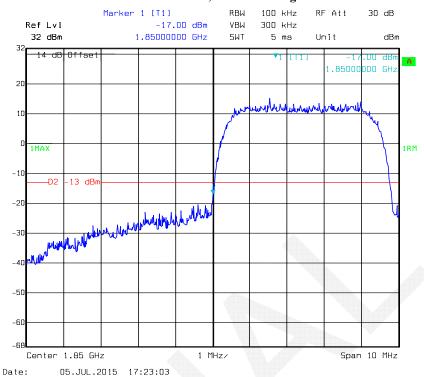
GSM 1900, Right Band Edge



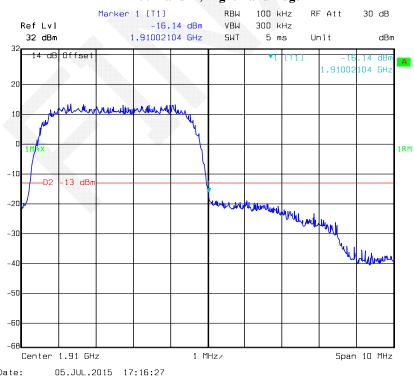
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REL99 Band II, Left Band Edge

Report No.: RDG150701001-00C



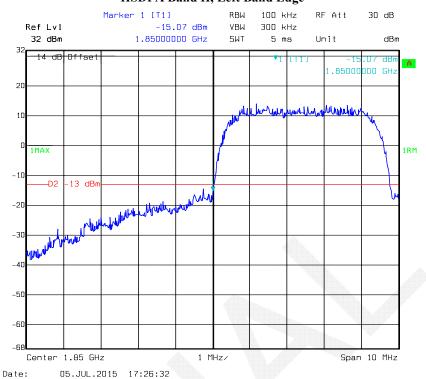
REL99 Band II, Right Band Edge



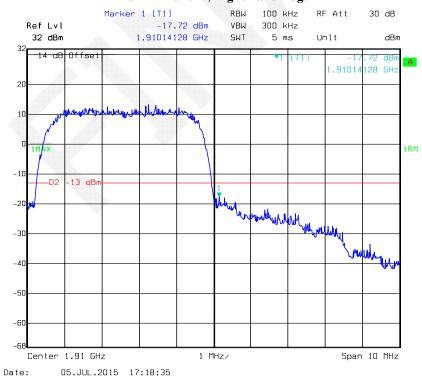
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HSDPA Band II, Left Band Edge

Report No.: RDG150701001-00C



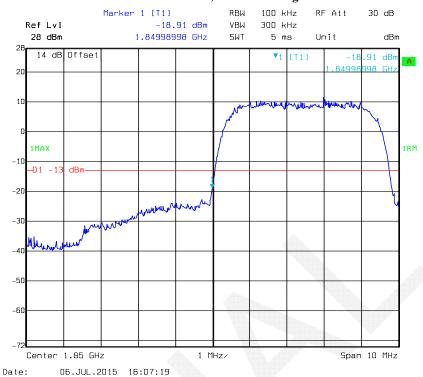
HSDPA Band II, Right Band Edge



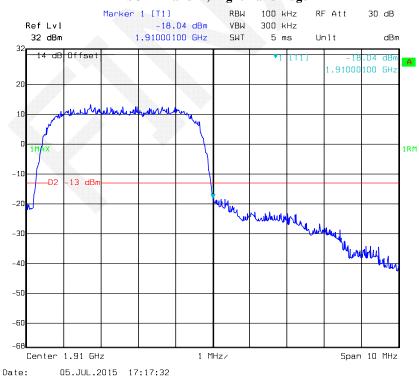
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HSUPA Band II, Left Band Edge

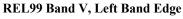
Report No.: RDG150701001-00C

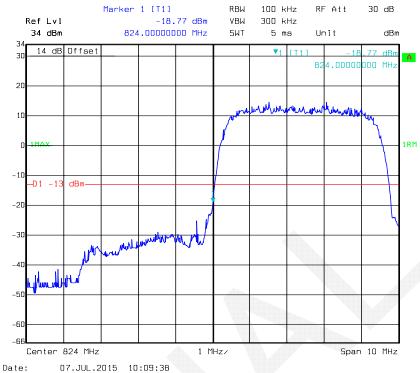


HSUPA Band II, Right Band Edge

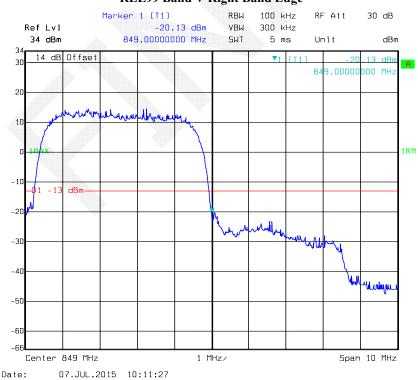


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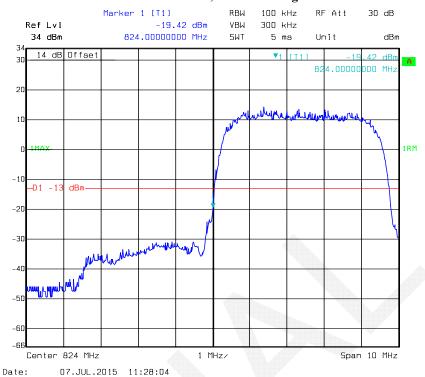
REL99 Band V Right Band Edge



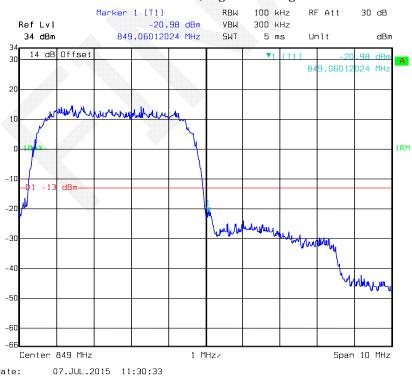
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HSDPA Band V, Left Band Edge

Report No.: RDG150701001-00C



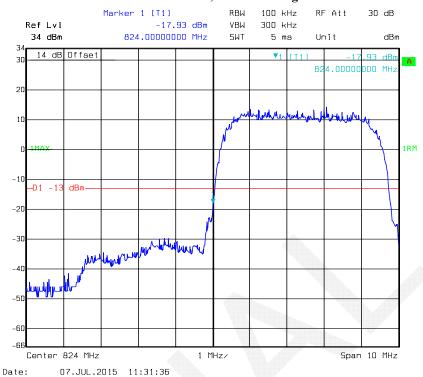
HSDPA Band V, Right Band Edge



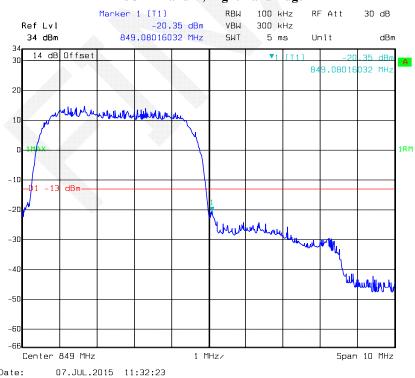
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HSUPA Band V, Left Band Edge

Report No.: RDG150701001-00C



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:

F	T-1	٠	T	•	41	D 1.11.	M . 1. 11 . C	
Frequency	Tolerance 1	or	Transmitters	ın	tne	Public	Mobile Service	es -

Report No.: RDG150701001-00C

Frequency Range (MHz)			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

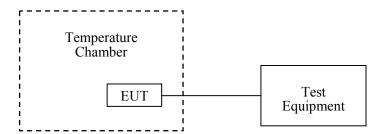
According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

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	2014-08-01	2015-08-01
R&S	Universal Radio Communication Tester	CMU200	109 038	2015-05-09	2016-05-09

Report No.: RDG150701001-00C

Test Data

Environmental Conditions

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

The testing was performed by Dean Liu on 2015-06-01.

Cellular Band (Part 22H)

G	GMSK, Middle Channel, f _c = 836.6 MHz									
Temperature	Voltage	Frequency Error	Frequency Error	Limit						
	V_{DC}	Hz	ppm	ppm						
-30	3.7	-32	-0.038	2.5						
-20	3.7	-21	-0.025	2.5						
-10	3.7	-25	-0.030	2.5						
0	3.7	-21	-0.025	2.5						
10	3.7	-32	-0.038	2.5						
20	3.7	-17	-0.020	2.5						
30	3.7	-18	-0.022	2.5						
40	3.7	-16	-0.019	2.5						
50	3.7	-23	-0.027	2.5						
20	3.5	-21	-0.025	2.5						
20	4.2	-30	-0.036	2.5						

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^{*} 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 _c = 836.6 MHz				
Temperature	VOITAGE		Frequency Error	Limit
	V_{DC}	Hz	ppm	ppm
-30	3.7	17	0.020	2.5
-20	3.7	16	0.019	2.5
-10	3.7	13	0.016	2.5
0	3.7	19	0.023	2.5
10	3.7	10	0.012	2.5
20	3.7	15	0.018	2.5
30	3.7	12	0.014	2.5
40	3.7	17	0.020	2.5
50	3.7	13	0.016	2.5
20	3.5	16	0.019	2.5
20	4.2	11	0.013	2.5

WCDMA Band V: HSDPA

Middle Channel, f _c = 836.6 MHz					
Temperature	Voltage Frequency Error		Frequency Error	Limit	
	V _{DC}	Hz	ppm	ppm	
-30	3.7	-16	-0.019	2.5	
-20	3.7	-18	-0.022	2.5	
-10	3.7	-19	-0.023	2.5	
0	3.7	-17	-0.020	2.5	
10	3.7	-15	-0.018	2.5	
20	3.7	-16	-0.019	2.5	
30	3.7	-13	-0.016	2.5	
40	3.7	-15	-0.018	2.5	
50	3.7	-12	-0.014	2.5	
20	3.5	-17	-0.020	2.5	
20	4.2	-12	-0.014	2.5	

FCC Part 22H/24E Page 50 of 54

Middle Channel, f _c = 836.6 MHz				
Temperature	Voltage Frequency Error Error		Limit	
	V_{DC}	Hz	ppm	ppm
-30	3.7	-18	-0.022	2.5
-20	3.7	-19	-0.023	2.5
-10	3.7	-15	-0.018	2.5
0	3.7	-17	-0.020	2.5
10	3.7	-17	-0.020	2.5
20	3.7	-12	-0.014	2.5
30	3.7	-10	-0.012	2.5
40	3.7	-11	-0.013	2.5
50	3.7	-19	-0.023	2.5
20	3.5	-18	-0.022	2.5
20	4.2	-15	-0.018	2.5

PCS Band (Part 24E)

G	GMSK, Middle Channel, f _c = 1880.0 MHz					
Temperature	Voltage	Frequency Error	Frequency Error	Result		
	V_{DC}	Hz	ppm			
-30	3.7	-25	-0.013	Pass		
-20	3.7	-18	-0.010	Pass		
-10	3.7	-29	-0.015	Pass		
0	3.7	-18	-0.010	Pass		
10	3.7	-27	-0.014	Pass		
20	3.7	-13	-0.007	Pass		
30	3.7	-19	-0.010	Pass		
40	3.7	-17	-0.009	Pass		
50	3.7	-19	-0.010	Pass		
20	3.5	-26	-0.014	Pass		
20	4.2	-18	-0.010	Pass		

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Middle Channel, f _c = 1880.0 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
	V _{DC}	Hz	ppm	
-30	3.7	-22	-0.012	Pass
-20	3.7	-24	-0.013	Pass
-10	3.7	-18	-0.010	Pass
0	3.7	-20	-0.011	Pass
10	3.7	-15	-0.008	Pass
20	3.7	-13	-0.007	Pass
30	3.7	-12	-0.006	Pass
40	3.7	-13	-0.007	Pass
50	3.7	-19	-0.010	Pass
20	3.5	-19	-0.010	Pass
20	4.2	-17	-0.009	Pass

WCDMA Band II: HSDPA

	Middle Channel, f _c = 1880.0 MHz					
Temperature	Voltage	Frequency Error	Frequency Error	Result		
	V_{DC}	Hz	ppm			
-30	3.7	-23	-0.012	Pass		
-20	3.7	-19	-0.010	Pass		
-10	3.7	-20	-0.011	Pass		
0	3.7	-17	-0.009	Pass		
10	3.7	-15	-0.008	Pass		
20	3.7	-12	-0.006	Pass		
30	3.7	-10	-0.005	Pass		
40	3.7	-16	-0.009	Pass		
50	3.7	-17	-0.009	Pass		
20	3.5	-10	-0.005	Pass		
20	4.2	-11	-0.006	Pass		

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WCDMA Band II: HSUPA

	Middle Channel, f _c = 1880.0 MHz					
Temperature	Voltage	Frequency Error	Frequency Error	Result		
	V_{DC}	Hz	ppm			
-30	3.7	-29	-0.015	Pass		
-20	3.7	-21	-0.011	Pass		
-10	3.7	-28	-0.015	Pass		
0	3.7	-27	-0.014	Pass		
10	3.7	-23	-0.012	Pass		
20	3.7	-20	-0.011	Pass		
30	3.7	-26	-0.014	Pass		
40	3.7	-25	-0.013	Pass		
50	3.7	-27	-0.014	Pass		
20	3.5	-22	-0.012	Pass		
20	4.2	-21	-0.011	Pass		

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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		KICK		
Products Brand		POSH			
Description	Description Manufacturer Project No.		Shenzhen Po	osh Mobile Limited	
			RDG150701	1001, RDG150701001-20	
			Differen	ces Description	
Testing Products Multip		ole Models	Differences Items	Details	
X511A		X511B		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, and only are different for little parameters.

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

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)

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

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