

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

For

POSH Mobile Limited

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FCC ID: 2AG8KX551

Report Type: Product Type: Original Report Icon Pro HD Lion Xiao **Test Engineer:** Lion Xiao Report Number: RDG160118001-00C 2016-01-25 **Report Date:** Sula Huang RF Leader **Reviewed By: Test Laboratory:** Bay Area Compliance Laboratories Corp. (Dongguan) No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China Tel: +86-769-8685888 Fax: +86-769-86858891 www.baclcorp.com.cn

Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Dongguan).

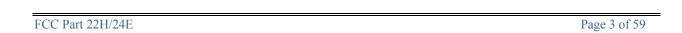
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Bay Area	Compliance	Laboratories	Corp. ((Dongguan)
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *POSH Mobile Limited*'s product, model number: *X551 (FCC ID: 2AG8KX551)* (the "EUT") in this report was a *Icon Pro HD*, which was measured approximately: 15.32 cm (L) x 7.9 cm (W) x 8.2cm (H), rated input voltage: DC3.7V rechargeable Li-ion battery or DC5V charging from adapter.

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Adapter information: PART NO.: C02-X511 MODEL: TL6D-0501000

INPUT: 100-240V ~ 50/60Hz 0.15A OUTPUT: DC 5.0V, 1000mA

Note: The model X551 have different samples, they are the same electromagnetic emissions and electromagnetic compatibility characteristics, the difference between them is model name and appearance, the details was explained in the attached declaration letter.

All measurement and test data in this report was gathered from production sample serial number: 160118001 (Assigned by BACL, Dongguan). The EUT was received on 2016-01-19.

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: 2AG8KX551 FCC Part 15C DSS submissions with FCC ID: 2AG8KX551 FCC Part 15C DTS submissions with FCC ID: 2AG8KX551

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

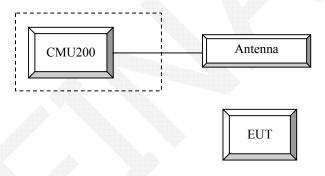
No modification was made to the EUT.

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

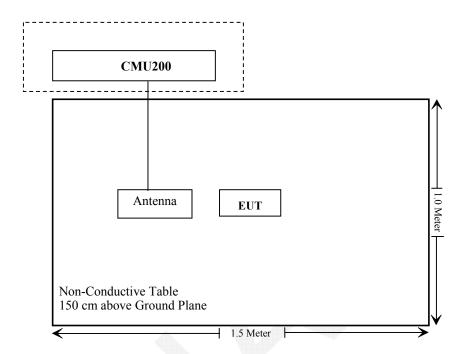
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Configuration of Test Setup



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Block Diagram of Test Setup



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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

Applicable Standard

FCC§1.1310 and §2.1093.

Test Result

Compliant, please refer to the SAR report: RDG160118001-20.



FCC §2.1047 - MODULATION CHARACTERISTIC

According to FCC \S 2.1047(d), Part 22H & 24E, there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

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FCC § 2.1046, § 22.913 (a) & § 24.232 (c) - RF OUTPUT POWER

Applicable Standard

According to FCC §2.1046 and §22.913 (a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

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According to FCC §2.1046 and §24.232 (C), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications..

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

Test Procedure

GSM/GPRS

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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WCDMA General Settings	Loopback Mode	Test Mode 1
	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		
	Rel99 RMC			12.2kbps RM	IC	
WCDMA	HSDPA FRC			H-Set1	¥	
	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			H-Set1				
	HSUPA Test		HS	UPA Loopb	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		· · · · ·		
	DNAK			8				
	DCQI			8				
HSDPA	Ack-Nack repetition				And a second			
Specific	factor			3				
Settings	CQI Feedback	4ms						
B	CQI Repetition Factor	CQI Repetition 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_FCls	E-TFCI 11 E E-TFCI PO 4 E-TFCI PO 18 E-TFCI 71 E-TFCI PO23 E-TFCI 75 E-TFCI PO26 E-TFCI PO27		E-TFCI 11 E-TFCI PO4 E-TFCI 92 E-TFCI PO 18	E-TFCI 11 E E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO23 E-TFCI PO26 E-TFCI 81 E-TFCI PO 27			

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HSPA+

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

Sub- test	β _c (Note3)	β _d	βнs (Note1)	β_{ec}	β _{ed} (2xSF2) (Note 4)	β _{ed} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β _{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 1	: Δ _{ACK} ,	Δ_{NACI}	$_{\scriptscriptstyle{C}}$ and $\Delta_{\scriptscriptstyle{CQI}}$	= 30/15	with eta_{hs} = 30/15	* β_c .					
Note 2	: CM =	3.5 a	and the Mi	PR is bas	ed on the relative	e CM difference,	MPR = M	AX(CM-1	,0).		
Note 3	: DPD	CH is	not config	ured, the	refore the β_c is s	et to 1 and β_d =	0 by defau	lt.			
Note 4	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										
	confi	gurati	ons DPD0	H is not	allocated. The U	E is signalled to	use the ex	trapolatio	on algoritl	nm.	

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DC-HSDPA

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

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

	Parameter	Unit	Value	
Nominal	Avg. Inf. Bit Rate	kbps	60	
Inter-TTI	Distance	TTI's	1	
Number	of HARQ Processes	Proces ses	6	
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	
Modulation	on		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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Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2015-08-03	2016-08-02
Sunol Sciences	Antenna	ЈВ3	A060611-3	2014-11-06	2017-11-05
HP	Amplifier	8447E	2434A02181	2015-09-01	2016-09-01
Agilent	Spectrum Analyzer	E4440A	SG43360054	2015-11-23	2016-11-22
ETS-Lindgren	Horn Antenna	3115	9808-5557	2015-09-06	2018-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2015-02-19	2016-02-19
Giga	Signal Generator	1026	320408	2015-11-23	2016-11-22
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
TDK RF	Horn Antenna	HRN-0118	130 084	2015-09-06	2018-09-06
N/A	Coaxial Cable	14m	N/A	2015-05-06	2016-05-06
N/A	Coaxial Cable	8m	N/A	2015-05-06	2016-05-06
N/A	Coaxial Cable	0.1m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2015-05-06	2016-05-06
E-Microwave	Attenuator(10dB)	EMCA10-5RN	OE01203239	2015-05-08	2016-05-08
Pasternack	RF Coaxial Cable	RF-01	N/A	2015-05-06	2016-05-06
Pasternack	RF Coaxial Cable	RF-02	N/A	2015-05-06	2016-05-06
N/A	Two-way Spliter	ODP-1-6-2S	OE0120142	2015-05-06	2016-05-06

Test Data

Environmental Conditions

Temperature:	22.5°C
Relative Humidity:	45%
ATM Pressure:	101.6 kPa

The testing was performed by Lion Xiao on 2016-01-21.

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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 Output Power

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

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	Charact		Peak	Output Powe	er (dBm)	
Band	Channel No.	GSM	GPRS 1 TX Slot	GPRS 2 TX Slot	GPRS 3 TX Slot	GPRS 4 TX Slot
	128	32.85	32.52	31.18	30.21	29.06
Cellular	190	33.03	32.87	31.81	30.27	28.91
	251	33.15	32.94	31.86	30.41	29.27
	512	30.05	29.46	28.41	26.76	25.21
PCS	661	30.51	30.15	28.40	27.19	25.41
	810	30.35	29.45	28.02	26.48	25.16

ERP & EIRP

Part 22H

		Dansiron	Substituted Method		thod	Absolute		
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Level (dBm)	Limit (dBm)	Margin (dB)
GSM 850_Middle Channel								
836.600	Н	105.29	30.4	0.0	1.0	29.4	38.5	9.1
836.600	V	101.40	29.6	0.0	1.0	28.6	38.5	9.9
	WCDMA Band V_Middle Channel							
836.600	Н	97.74	22.8	0.0	1.0	21.8	38.5	16.7
836.600	V	92.91	21.1	0.0	1.0	20.1	38.5	18.4

Part 24E

		Receiver Substituted Method		Absolute				
Frequency (MHz)	Polar (H/V)	Reading	S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Level (dBm)	Limit (dBm)	Margin (dB)
PCS 1900_Middle Channel								
1880.000	Н	92.72	21.1	11.1	1.4	30.8	33.0	2.2
1880.000	V	88.30	16.8	11.1	1.4	26.5	33.0	6.5
WCDMA Band II_Middle Channel								
1880.000	Н	84.85	13.3	11.1	1.4	23.0	33.0	10.0
1880.000	V	81.43	10.0	11.1	1.4	19.7	33.0	13.3

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WCDMA Band

		Conducted 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	22.58	2.88	22.51	2.92	22.88	2.88
	1	21.35	2.87	21.27	2.89	21.86	2.89
HSDPA	2	21.40	3.01	21.28	3.00	21.79	2.73
пзрра	3	21.33	2.95	21.31	2.87	21.77	2.97
	4	21.38	2.92	21.43	2.85	21.80	2.97
	1	21.41	2.79	21.38	2.90	21.71	2.78
	2	21.36	2.75	21.36	2.99	21.73	2.92
HSUPA	3	21.33	3.01	21.33	2.95	21.76	2.79
	4	21.42	2.76	21.24	2.98	21.65	2.86
	5	21.36	3.01	21.28	2.87	21.74	2.82
	1	21.30	2.74	21.23	3.04	21.69	3.02
DC-HSDPA	2	21.23	2.92	21.31	2.95	21.62	2.95
DC-HSDPA	3	21.36	2.75	21.18	2.90	21.58	2.81
	4	21.38	2.79	21.21	3.02	21.55	3.00
HSPA+	1	21.32	2.84	21.16	2.88	21.59	2.80

WCDMA Band V

			Conducted 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	22.31	2.80	22.51	3.20	22.28	3.16
	1	21.24	2.85	21.43	3.25	21.15	3.19
HSDPA	2	21.17	2.78	21.45	3.07	21.23	3.24
нзрра	3	21.22	2.85	21.47	3.33	21.08	3.02
	4	21.14	2.71	21.50	3.23	21.16	3.10
	1	21.16	2.94	21.43	3.25	21.04	3.15
	2	21.12	2.87	21.45	3.16	20.97	3.12
HSUPA	3	21.15	2.68	21.42	3.09	21.02	3.27
	4	21.11	2.81	21.33	3.32	21.06	3.12
	5	21.06	2.89	21.37	3.33	21.00	3.03
	1	21.00	2.94	21.30	3.10	20.95	3.21
DC HCDDA	2	20.07	2.85	21.25	3.09	21.01	3.02
DC-HSDPA	3	21.05	2.88	21.28	3.24	20.98	3.28
	4	21.02	2.78	21.24	3.10	20.94	3.03
HSPA+	1	20.97	2.76	21.22	3.27	20.89	3.24

Note:

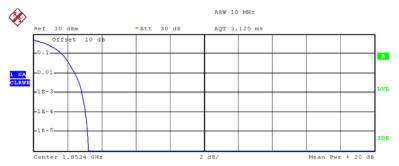
- 1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
- 2) Absolute Level = SG Level Cable loss + Antenna Gain
- 3) Margin = Limit-Absolute Level

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Peak-to-average ratio (PAR)

WCDMA Band (PART 24E)

Low Channel



Complementary Cumulative Distribution Function (100000 samples)

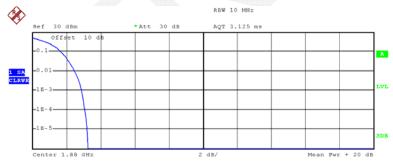
Trace 1
Mean 22.35 dBm
Peak 25.57 dBm
Crest 3.22 dB

10 % 1.68 dB
1 % 2.44 dB

.1 % 2.88 dB .01 % 3.08 dB

Date: 21.JAN.2016 19:54:41

Middle Channel



Complementary Cumulative Distribution Function (100000 samples)

Trace 1
Mean 22.25 dBm
Peak 25.50 dBm
Crest 3.25 dB

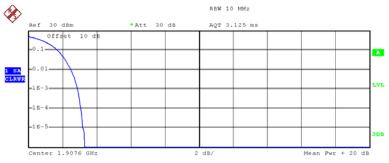
10 % 1.72 dB

1 % 2.48 dB .1 % 2.92 dB .01 % 3.08 dB

Date: 21.JAN.2016 19:54:10

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High Channel



Complementary Cumulative Distribution Function (100000 samples)

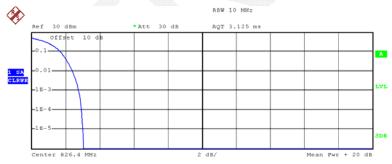
Trace 1
Mean 22.60 dBm
Peak 25.92 dBm
Crest 3.32 dB

10 % 1.72 dB 1 % 2.52 dB .1 % 2.88 dB .01 % 3.08 dB

Date: 21.JAN.2016 19:53:29

WCDMA Band V (PART 22H)

Low Channel



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

Mean 22.08 dBm Peak 25.14 dBm Crest 3.06 dB

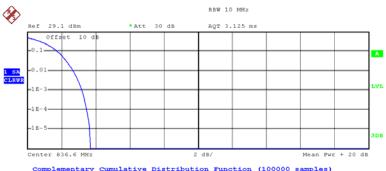
1 % 2.44 dB .1 % 2.80 dB .01 % 2.96 dB

Date: 21.JAN.2016 19:58:23

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Middle Channel

Report No.: RDG160118001-00C



Trace 1 Mean 22.46 dBm Peak 26.15 dBm 3.69 dB Crest

10 % 1.76 dB 1 % 2.72 dB 3.20 dB .1 % .01 % 3.48 dB

Date: 21.JAN.2016 19:57:34

High Channel



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

Mean 22.14 dBm 25.78 dBm Peak Crest 3.64 dB

1.80 dB 10 % 1 % 2.64 dB .1 % 3.16 dB .01 % 3.44 dB

Date: 21.JAN.2016 19:59:02

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

Report No.: RDG160118001-00C

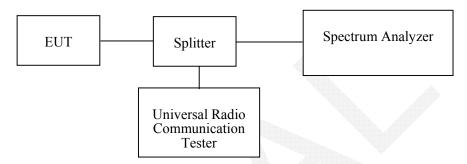
Applicable Standard

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	2015-11-23	2016-11-22
R&S	Universal Radio Communication Tester	CMU200	109 038	2015-05-09	2016-05-09
N/A	Coaxial Cable	0.1m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB- 00036	0E01201047	2015-05-06	2016-05-06
E-Microwave	Attenuator(10dB)	EMCA10- 5RN	OE01203239	2015-05-08	2016-05-08
Pasternack	RF Coaxial Cable	RF-01	N/A	2015-05-06	2016-05-06
Pasternack	RF Coaxial Cable	RF-02	N/A	2015-05-06	2016-05-06
N/A	Two-way Spliter	ODP-1-6- 2S	OE0120142	2015-05-06	2016-05-06

^{*} 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:	23 °C
Relative Humidity:	45 %
ATM Pressure:	101.5 kPa

The testing was performed by Lion Xiao on 2016-01-20.

Test Mode: Transmitting

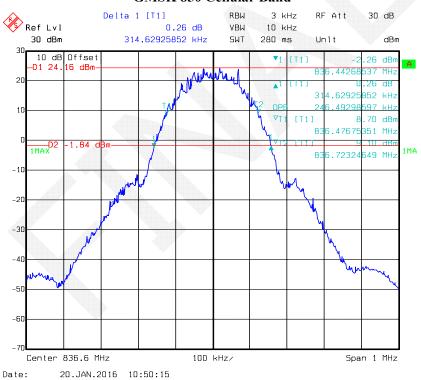
Test Result: Compliant. Please refer to the following table and plots.

Report No.: RDG160118001-00C

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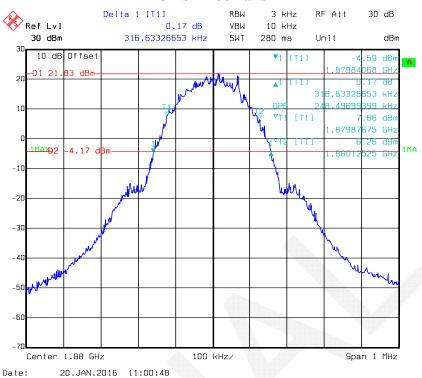
Band	Channel No.	Mode	99% Occupied Bandwidth	26 dB Occupied Bandwidth
			kHz	kHz
Cellular	190	GSM	246	315
PCS	661	PCS	248	317
WCDM	9400	Rel 99	4168	4729
WCDMA Band	9400	HSDPA	4168	4749
Dana	9400	HSUPA	4168	4749
WCDMA	4183	Rel 99	4148	4709
WCDMA Band V	4183	HSDPA	4168	4729
Build V	4183	HSUPA	4148	4709

GMSK 850 Cellular Band

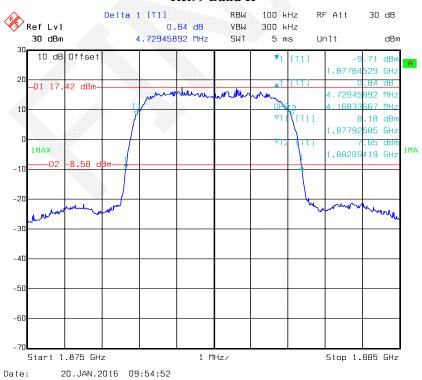


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GMSK PCS Band



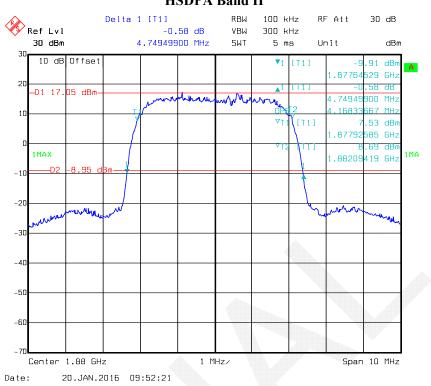
Rel99 Band II



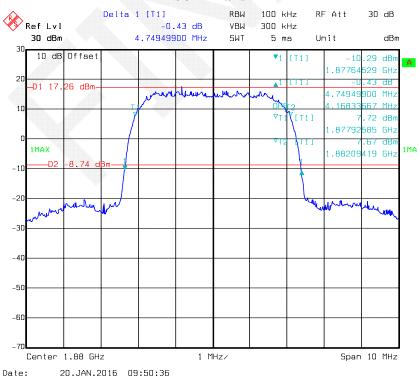
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HSDPA Band II

Report No.: RDG160118001-00C

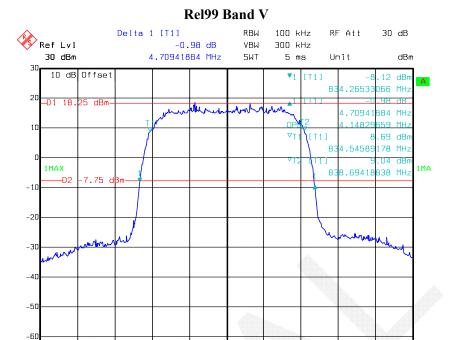


HSUPA Band II



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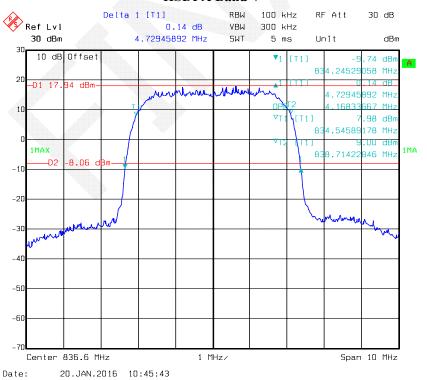
Span 10 MHz



Date: 20.JAN.2016 10:41:36

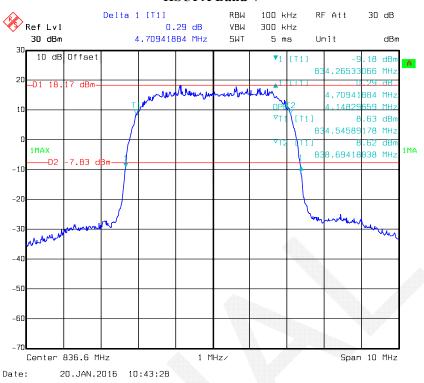
Center 836.6 MHz

HSDPA Band V



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HSUPA Band V



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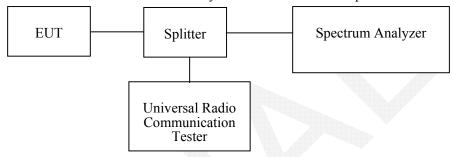
Applicable Standard

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	2015-11-23	2016-11-22
R&S	Universal Radio Communication Tester	CMU200	109 038	2015-05-09	2016-05-09
N/A	Coaxial Cable	0.1m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB- 00036	0E01201047	2015-05-06	2016-05-06
E-Microwave	Attenuator(10dB)	EMCA10- 5RN	OE01203239	2015-05-08	2016-05-08
Pasternack	RF Coaxial Cable	RF-01	N/A	2015-05-06	2016-05-06
Pasternack	RF Coaxial Cable	RF-02	N/A	2015-05-06	2016-05-06
N/A	Two-way Spliter	ODP-1-6- 2S	OE0120142	2015-05-06	2016-05-06

^{*} 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:	23°C
Relative Humidity:	45%
ATM Pressure:	101.5 kPa

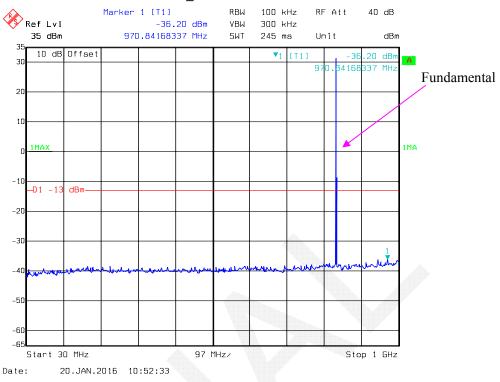
Report No.: RDG160118001-00C

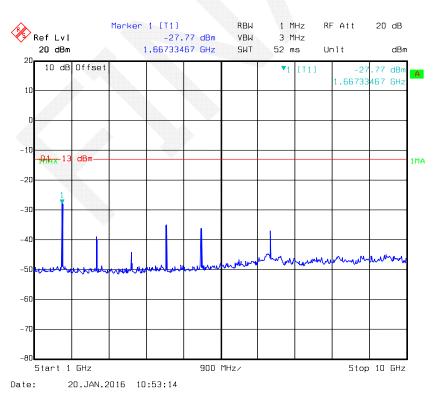
The testing was performed by Lion Xiao on 2016-01-20.

Please refer to the following plots.

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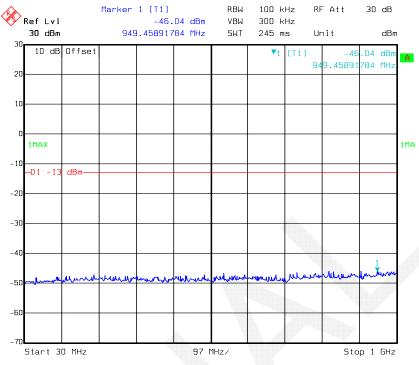
GSM850_Middle Channel



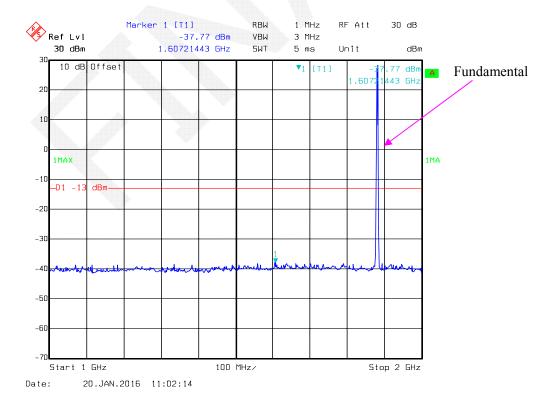


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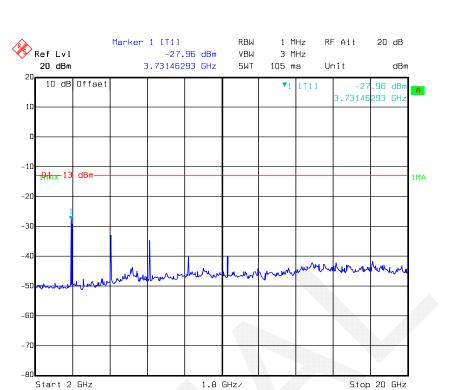
PCS 1900_ Middle Channel







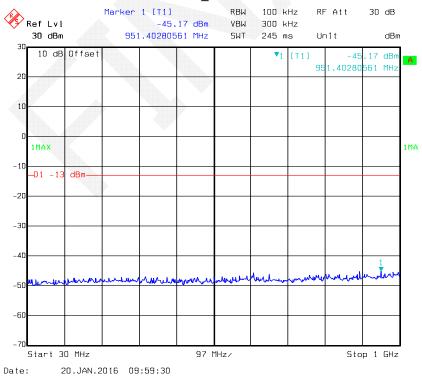
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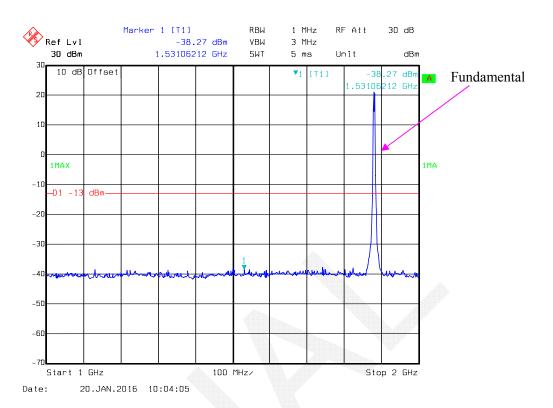
Rel99 Band II_ Middle Channel

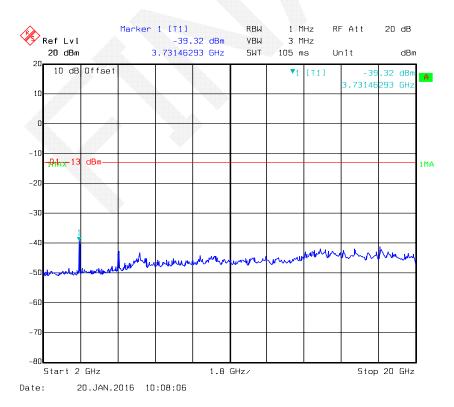
20.JAN.2016 11:02:35

Date:



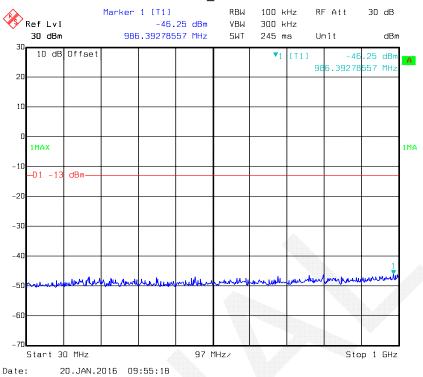
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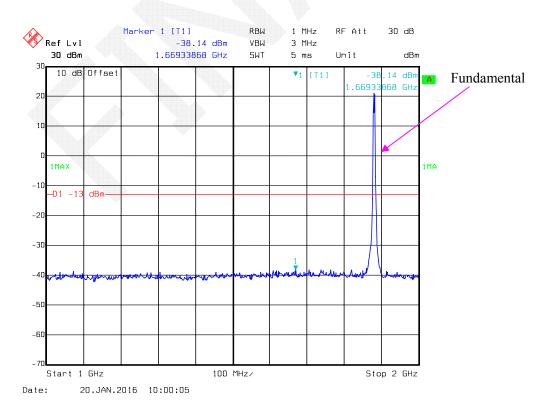




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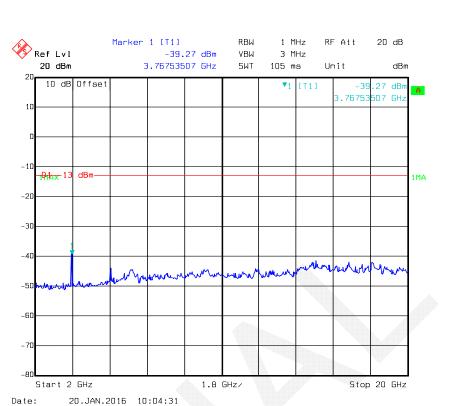
$HSDPA \ Band \ II_Middle \ Channel$





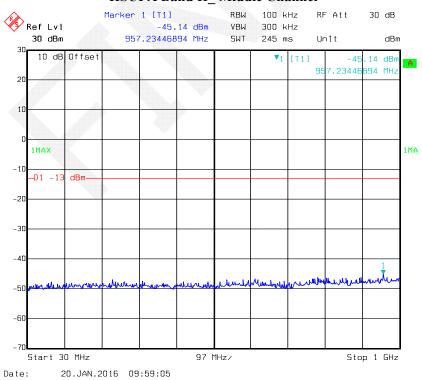
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Date:

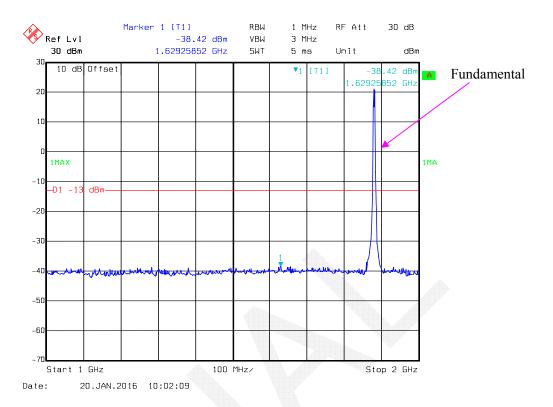


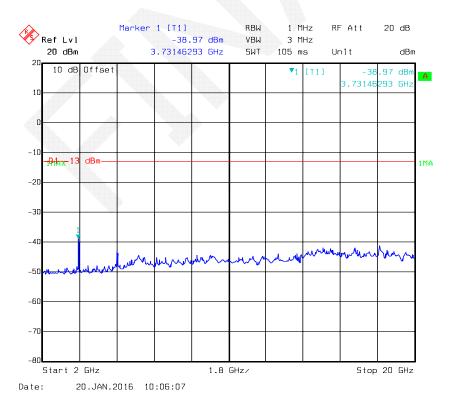
Report No.: RDG160118001-00C

HSUPA Band II_ Middle Channel



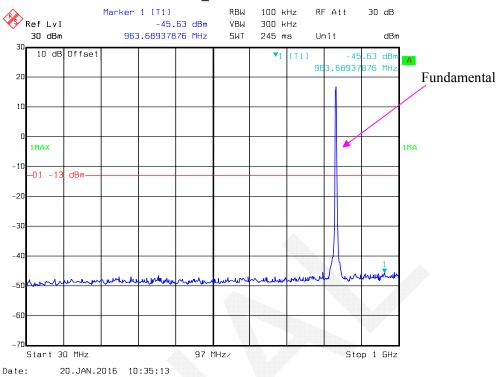
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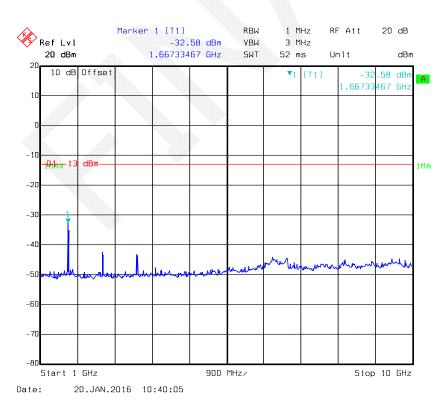




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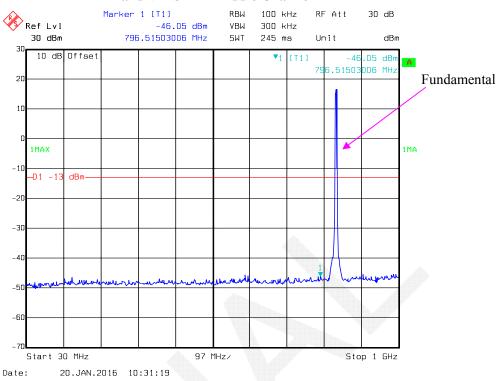
Band V Rel99_Middle Channel

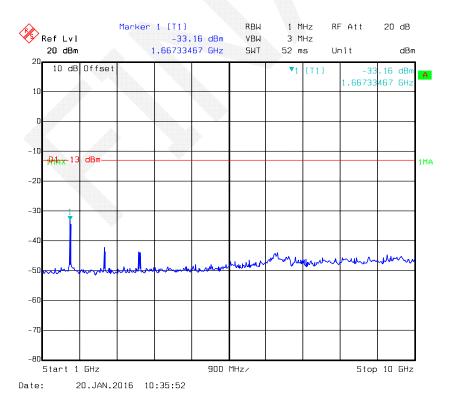




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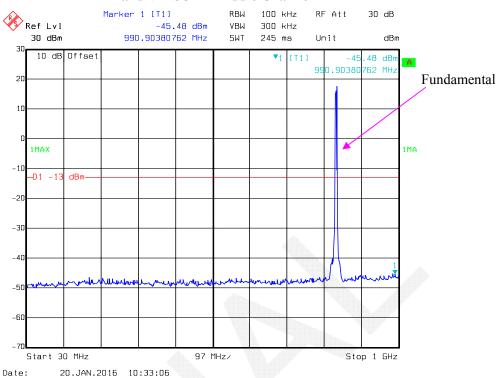
Band V HSDPA Middle Channel

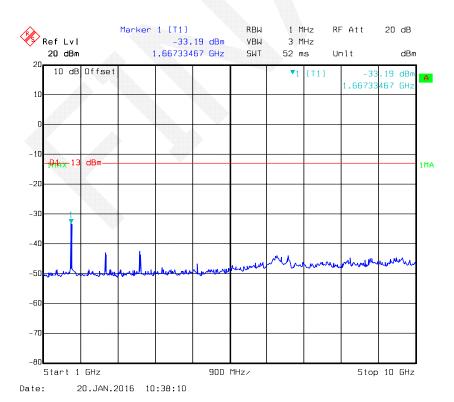




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Band V HSUPA Middle Channel





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

Report No.: RDG160118001-00C

Applicable Standard

FCC § 2.1053, §22.917 and § 24.238.

Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in $dB = 10 \lg (TXpwr in Watts/0.001)$ – the absolute level

Spurious attenuation limit in $dB = 43 + 10 \text{ Log}_{10}$ (power out in Watts)

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2015-08-03	2016-08-02
Sunol Sciences	Antenna	JB3	A060611-3	2014-11-06	2017-11-05
HP	Amplifier	8447E	2434A02181	2015-09-01	2016-09-01
Agilent	Spectrum Analyzer	E4440A	SG43360054	2015-11-23	2016-11-22
ETS-Lindgren	Horn Antenna	3115	9808-5557	2015-09-06	2018-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2015-02-19	2016-02-19
Giga	Signal Generator	1026	320408	2015-11-23	2016-11-22
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
TDK RF	Horn Antenna	HRN-0118	130 084	2015-09-06	2018-09-06
N/A	Coaxial Cable	14m	N/A	2015-05-06	2016-05-06
N/A	Coaxial Cable	8m	N/A	2015-05-06	2016-05-06
N/A	Coaxial Cable	2m	N/A	2015-05-06	2016-05-06
Mini Circuit	High Pass Filter	VHF-3100+	31251	2015-05-06	2016-05-06
Mini Circuit	High Pass Filte	VHF-1200+	N/A	2015-05-06	2016-05-06

^{*} 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:	23.8 °C
Relative Humidity:	52%
ATM Pressure:	102.2 kPa

The testing was performed by Lion Xiao on 2016-01-21.

EUT Operation Mode: Transmitting

Cellular Band (PART 22H)

Report No.: RDG160118001-00C

30 MHz-10 GHz:

		D:	Substituted Method			Absolute				
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Gain Cable Loss		Limit (dBm)	Margin (dB)		
	Frequency: 836.6 MHz									
1673.200	Н	58.59	-42.5	10.5	1.5	-33.5	-13.0	20.5		
1673.200	V	55.96	-45.4	10.5	1.5	-36.4	-13.0	23.4		
2509.800	Н	52.03	-46	12.2	2.8	-36.6	-13.0	23.6		
2509.800	V	50.21	-46.9	12.2	2.8	-37.5	-13.0	24.5		

WCDMA Band V

		Receiver	Sı	ubstituted Me	thod	Absolute			
Frequency (MHz)	Polar (H/V)	Reading (dBµV)	S.G. Antenna Level Gain (dBm) (dBd/dBi)		Cable Loss (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	
	Frequency:836.6 MHz								
1673.200	Н	57.36	-43.7	10.5	1.5	-34.7	-13.0	21.7	
1673.200	V	54.84	-46.5	10.5	1.5	-37.5	-13.0	24.5	

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

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PCS1900 (PART 24E)

Report No.: RDG160118001-00C

30 MHz-20 GHz:

WHILE TO GILE.										
		Dansiron	Substituted Method			Abaaluta	All			
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)		
	Frequency: 1880.0 MHz									
3760.000	Н	54.31	-40	12.3	2.9	-30.6	-13.0	17.6		
3760.000	V	51.40	-41.7	12.3	2.9	-32.3	-13.0	19.3		

WCDMA Band II

		D	Sı	ubstituted Me	thod	A la malasta		
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)
			Frequ	ency:1880 MI	Hz			
3760.000	Н	52.36	-41.9	12.3	2.9	-32.5	-13.0	19.5
3760.000	V	50.73	-42.3	12.3	2.9	-32.9	-13.0	19.9

For below 1GHz, all spurious emissions are 20 dB 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.

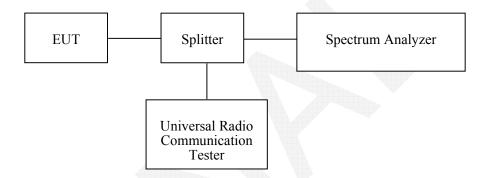
Report No.: RDG160118001-00C

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	2015-11-23	2016-11-22
R&S	Universal Radio Communication Tester	CMU200	109 038	2015-07-28	2016-07-27
N/A	Coaxial Cable	0.1m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB- 00036	0E01201047	2015-05-06	2016-05-06
E-Microwave	Attenuator(10dB)	EMCA10- 5RN	OE01203239	2015-05-08	2016-05-08
Pasternack	RF Coaxial Cable	RF-01	N/A	2015-05-06	2016-05-06
Pasternack	RF Coaxial Cable	RF-02	N/A	2015-05-06	2016-05-06
N/A	Two-way Spliter	ODP-1-6-2S	OE0120142	2015-05-06	2016-05-06

^{*} 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:	23.0 °C
Relative Humidity:	45%
ATM Pressure:	101.5 kPa

Report No.: RDG160118001-00C

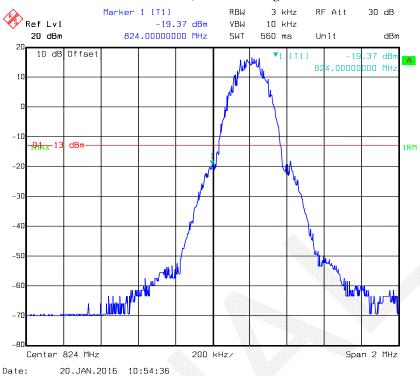
The testing was performed by Lion Xiao on 2016-01-20.

Test Mode: Transmitting

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

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GSM 850, Left Band Edge

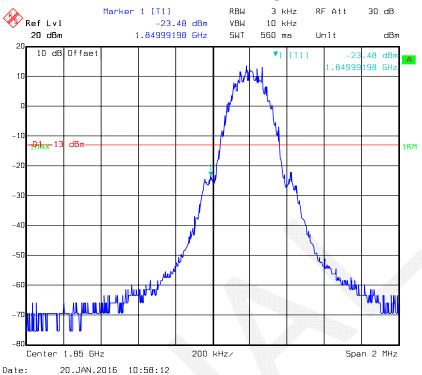


GSM 850, Right Band Edge

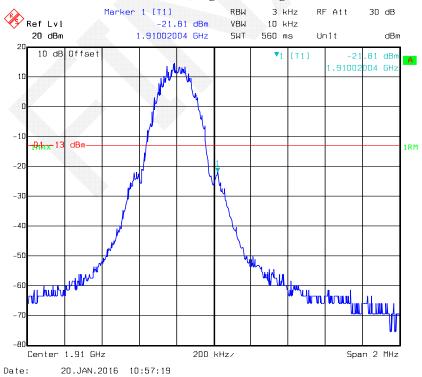


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PCS 1900, Left Band Edge

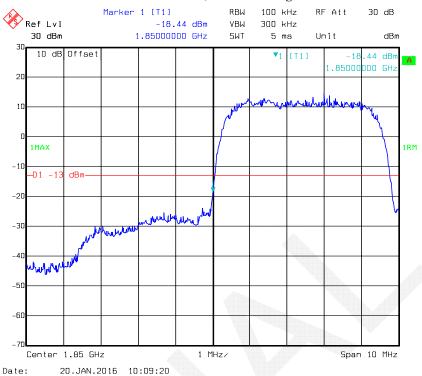


PCS 1900, Right Band Edge

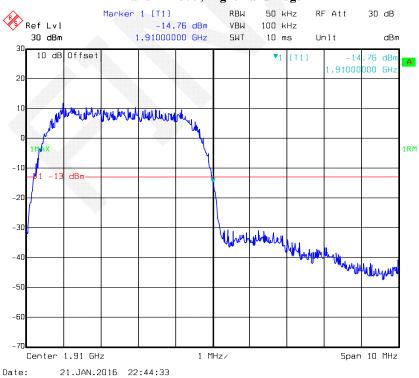


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Band II Rel99, Left Band Edge

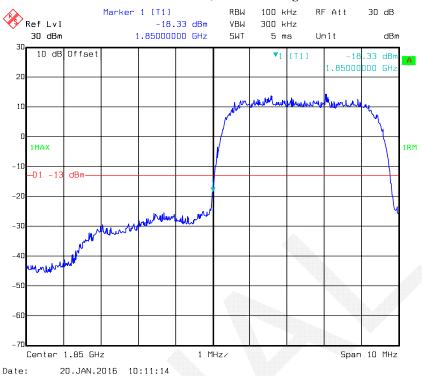


Band II Rel99, Right Band Edge

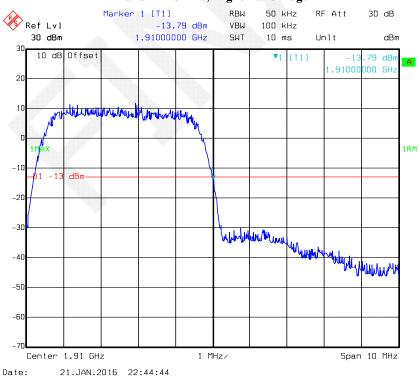


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Band II HSDPA, Left Band Edge

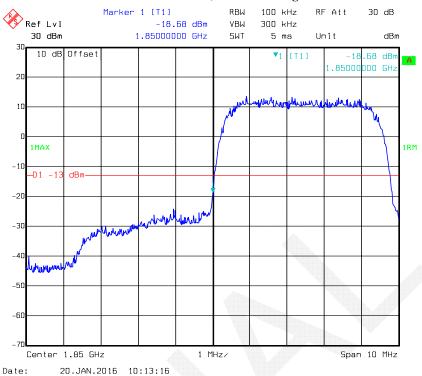


Band II HSDPA, Right Band Edge

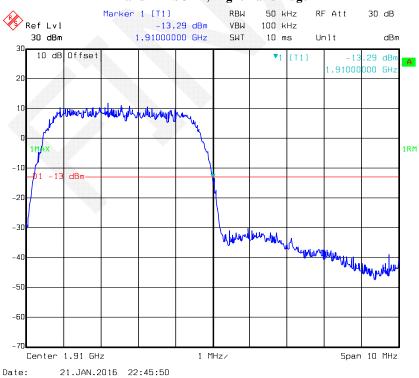


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Band II HSUPA, Left Band Edge

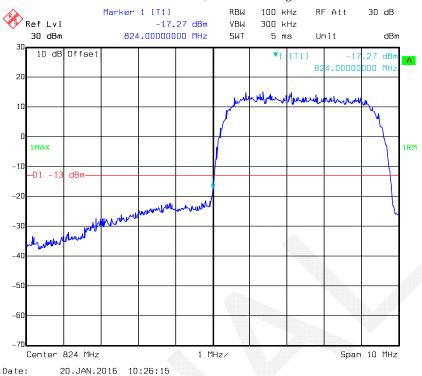


Band II HSUPA, Right Band Edge

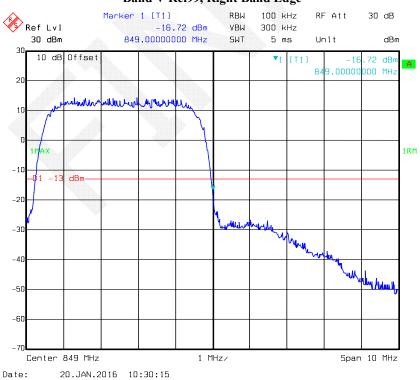


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Band V Rel99, Left Band Edge

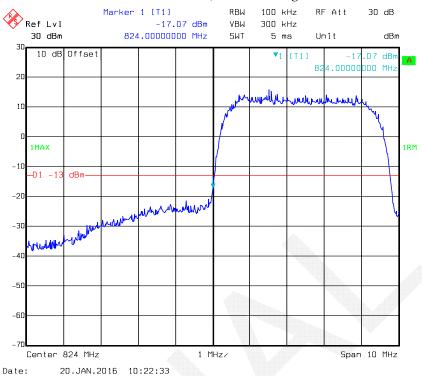


Band V Rel99, Right Band Edge

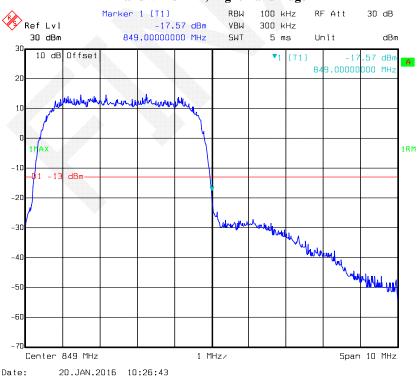


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Band V HSDPA, Left Band Edge

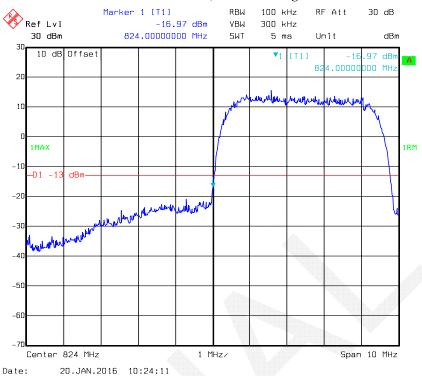


Band V HSDPA, Right Band Edge

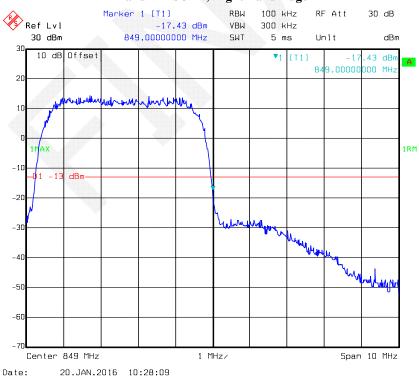


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Band V HSUPA, Left Band Edge



Band V HSUPA, 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:

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

Report No.: RDG160118001-00C

Frequency Range (MHz)	Base, fixed (ppm)	· · · · · · · · · · · · · · · · · · ·	
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929.	5.0	N/A	N/A
929 to 960.	1.5	N/A	N/A
2110 to 2220	10.0	N/A	N/A

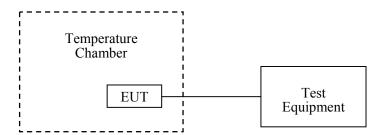
According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the communication test set.

Frequency Stability vs. Voltage: An external variable DC power supply was connected to the battery terminals of the equipment under test. The voltage was set from 85% to 115% of the nominal value and was then decreased until the transmitter light no longer illuminated; i.e., the battery end point. The output frequency was recorded for each battery voltage.



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Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Dongzhixu	High Temperature Test Chamber	DP1000	201105083-3	2015-09-10	2016-09-09
R&S	Universal Radio Communication Tester	CMU200	109 038	2015-07-28	2016-07-27
UNI-T	Multimeter	UT39A	M130199938	2015-04-10	2016-04-10
Pasternack	RF Coaxial Cable	RF-01	/	2015-05-06	2016-05-06

Report No.: RDG160118001-00C

Test Data

Environmental Conditions

Temperature:	23.8 °C
Relative Humidity:	52%
ATM Pressure:	102.2 kPa

The testing was performed by Lion Xiao on 2015-12-31.

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		29	0.035			
-20		21	0.025			
-10		26	0.031			
0		23	0.027			
10	3.7	27	0.032			
20		20	0.024	2.5		
30		28	0.033			
40		25	0.030			
50		22	0.026			
25	3.5	26	0.031			
25	4.2	23	0.027			

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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).

Band V Rel99

Middle Channel, f _c = 836.6 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
	V_{DC}	Hz	ppm	ppm
-30		47	0.056	
-20		40	0.048	
-10		45	0.054	
0		41	0.049	
10	3.7	49	0.059	
20		40	0.048	2.5
30		49	0.059	
40		42	0.050	
50		45	0.054	
25	3.5	48	0.057	
25	4.2	43	0.051	

Band V HSDPA

	ANTON				
Middle Channel, f _c = 836.6 MHz					
Temperature	Voltage	Frequency Error	Frequency Error	Limit	
	V_{DC}	Hz	ppm	ppm	
-30		37	0.044		
-20		30	0.036		
-10		39	0.047		
0		34	0.041		
10	3.7	38	0.045		
20		31	0.037	2.5	
30		35	0.042		
40		30	0.036		
50		36	0.043		
25	3.5	39	0.047		
23	4.2	33	0.039		

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Middle Channel, f _c = 836.6 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
	V_{DC}	Hz	ppm	ppm
-30		52	0.062	
-20		49	0.059	
-10		55	0.066	
0		57	0.068	
10	3.7	53	0.063	
20		59	0.071	2.5
30		52	0.062	
40		56	0.067	
50		50	0.060	
25	3.5	58	0.069	
25	4.2	54	0.065	

PCS Band (Part 24E)

GMSK, Middle Channel, $f_c = 1880.0 \text{ MHz}$					
Temperature	Voltage	Frequency Error	Frequency Error	Result	
	V_{DC}	Hz	ppm		
-30		-12	-0.006		
-20		-10	-0.005		
-10		-19	-0.010		
0		-14	-0.007		
10	3.7	-16	-0.009		
20		-13	-0.007	Compliance	
30		-17	-0.009		
40		-11	-0.006		
50		-18	-0.010		
25	3.5	-14	-0.007		
23	4.2	-20	-0.011		

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Band II Rel99

Middle Channel, f _c = 1880.0 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
	V_{DC}	Hz	ppm	
-30		-31	-0.016	
-20		-29	-0.015	
-10		-34	-0.018	
0		-39	-0.021	
10	3.7	-32	-0.017	
20		-38	-0.020	Compliance
30		-40	-0.021	
40		-35	-0.019	
50		-33	-0.018	
25	3.5	-39	-0.021	
25	4.2	-31	-0.016	

Band II HSDPA

	Middle Channel, f _c = 1880.0 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result	
	V_{DC}	Hz	ppm		
-30		-29	-0.015		
-20		-34	-0.018		
-10		-31	-0.016		
0		-27	-0.014		
10	3.7	-23	-0.012		
20		-29	-0.015	Compliance	
30		-24	-0.013		
40		-28	-0.015		
50		-20	-0.011		
25	3.5	-26	-0.014		
25	4.2	-21	-0.011		

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Band II HSUPA

	Middle Channel, f _c = 1880.0 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result	
	V_{DC}	Hz	ppm		
-30		-40	-0.021		
-20		-43	-0.023		
-10		-37	-0.020		
0		-41	-0.022		
10	3.7	-48	-0.026		
20		-45	-0.024	Compliance	
30		-47	-0.025		
40		-41	-0.022		
50		-44	-0.023	4	
25	3.5	-46	-0.024		
23	4.2	-42	-0.022		

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DECLARATION LETTER

Declaration of Alteration

Report No.: RDG160118001-00C

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.)

This is for ye	our rere	rence only.	1				
	Name		Icon Pro HD				
Products Bran	Brane	d	POSH				
Description Manufactu Project No		facturer	Shenzhen Posh Mobile Limited				
		ct No.	RDG160118001,RDG160118001 -20				
		27 70-17	Differenc	es Description			
Testing Pro	ducts	Multip	le Models	Differences Items	Details		
X551		X551A,X	551B,X551C	Model name.Appearence	They are same motherboard, and just have the different model name and appearence.		

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: Warren Chan

Title: Manager

ADD: 1011A, 10¹F., Harbour Centre Tower 1, No.1 Hok Cheung St., Hung Hom, Kowloon, Hong Kong
31889834 Fax: 852 3904 4979 Email: Warren@poshmobile.com.hk

QPDG004R32 Version1.0 (20140717)

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

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