

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

For

MAXWEST INTERNATIONAL LIMITED

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FCC ID: 2AEN3NITRO5

Report Type: Product Type:
Original Report Mobile Phone

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Report Number: RDG150603001-00C

Report Date: 2015-06-23

Reviewed By: Sula Huang RF Leader

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The MAXWEST INTERNATIONAL LIMITED's product, model number: Nitro 5 (FCC ID: 2AEN3NITRO5) (the "EUT") in this report was a Mobile Phone(named Nitro 5 by applicant), which was measured approximately: 14.5 cm (L) x 7.1 cm (W) x 1.0 cm (H), rated input voltage: DC3.7V rechargeable Li-ion battery or DC5.0V charging from adapter.

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Adapter information: Model: MAXWEST

Input: AC100-240V, 50/60Hz 0.2A

Output: DC5.0V, 1A

All measurement and test data in this report was gathered from production sample serial number: 201505000456 (Assigned by applicant). The EUT was received on 2015-06-03.

Objective

This report is prepared on behalf of *MAXWEST INTERNATIONAL 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: 2AEN3NITRO5. FCC Part 15C DSS submissions with FCC ID: 2AEN3NITRO5. FCC Part 15C DTS submissions with FCC ID: 2AEN3NITRO5.

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

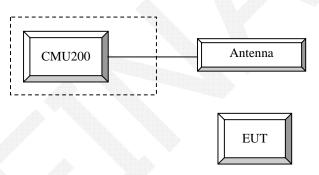
No modification was made to the EUT.

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

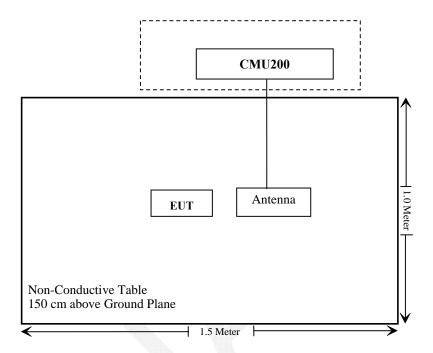
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Configuration of Test Setup



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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: RDG150603001-20.

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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..

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 > 27 dBm for EGPRS 850

> 27 dBm for EGPRS 850 > 26 dBm for EGPRS 1900

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

Frequency Offset > + 0 Hz

Mode > BCCH and TCH

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

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) and MCS5 (EGPRS)

Bit Stream > 2E9-1 PSR Bit Stream

AF/RF Enter appropriate offsets for Ext. Att. Output and Ext. Att. Input

Connection Press Signal on to turn on the signal and change settings

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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
	β c / 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 RMC						
WCDMA	HSDPA FRC			H-Set1	<u> </u>				
	Power Control Algorithm		Algorithm2						
WCDMA	βс	2/15	12/15	15/15	15/15				
General Settings	βd	15/15	15/15	8/15	4/15				
Settings	βd(SF)		64						
	β c/ β d	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					
псрву	DCQI			8					
HSDPA Specific	Ack-Nack repetition factor	3							
Settings	CQI Feedback			4ms					
	CQI Repetition Factor			2					
	Ahs= β hs/ β c		<u> </u>	30/15					

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WCDMA HSUPA

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

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	Mode	HSUPA	HSUPA	HSUPA	HSUPA	HSUPA				
	Subset	1	2	3	4	5				
	Loopback Mode	Test Mode 1								
	Rel99 RMC	12.2kbps RMC								
	HSDPA FRC	H-Set1								
	HSUPA Test		HS	UPA Loopba	ack					
WCDM	Power Control Algorithm			Algorithm2						
A	βc	11/15	6/15	15/15	2/15	15/15				
General	βd	15/15	15/15	9/15	15/15	0				
Settings	βес	209/225	12/15	30/15	2/15	5/15				
	β c/ β d	11/15	6/15	15/9	2/15	-				
	βhs	22/15	12/15	30/15	4/15	5/15				
	CM(dB)	1.0	3.0	2.0	3.0	1.0				
	MPR(dB)	0	2	1	2	0				
	DACK	U		8		U				
	DNAK			8						
	DCQI			8						
HSDPA	Ack-Nack repetition	A -la Ni-al- manadidia n								
Specific	factor			3						
Settings	CQI Feedback	4ms								
Settings	COI Demotition									
	Factor	2								
	Ahs= β hs/ β c 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	174.0	402.0	205.0	200.0				
	Data Rate kbps	242.1	174.9	482.8	205.8	308.9				
		E MEG	T 11 F	E-TFCI E-TFCI 11 E						
		E-TFC E-TFC		E-TFCI 11		I PO 4				
HSUPA		E-TFC E-TFC		E-TFCI		CI 67				
Specific		E-TFCI		PO4		I PO 18				
Settings		E-TF		E-TFCI	E-TF					
	Reference E FCls	E-TFC		92		I PO23				
	reference E_1 els	E-TF		E-TFCI		CI 75				
		E-TFC		PO 18		I PO26				
		E-TF			E-TF					
		E-TFCI	PO 27		E-TFC	I 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	β _{HS} (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)	(Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β _{ed} 1: 30/15	β _{ed} 3: 24/15	3.5	2.5	14	105	105
					β _{ed} 2: 30/15	β _{ed} 4: 24/15					
Note 1	Note 1: Δ_{ACK} , Δ_{NACK} and Δ_{CQI} = 30/15 with β_{hs} = 30/15 * β_c .										
Note 2	: CM =	= 3.5 a	and the MF	PR is bas	ed on the relative	e CM difference.	MPR = M	AX(CM-1	.0).		
Note 3					refore the β _c is s				, ,		
					, ,	, -	o by acida				
	Note 4: β _{ed} can not be set directly; it is set by Absolute Grant Value.										
Note 5	Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-										
DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH											
	configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.										
	COIIII	garan	0113 DI DC	/ 1. 13 HOL	unocated. The Of	E io oignalica to	ase are ca	apolatic	zir aigonu		

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DC-HSDPA

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

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

Parameter	Unit	Value					
Nominal Avg. Inf. Bit Rate	kbps	60					
Inter-TTI Distance	TTI's	1					
Number of HARQ Processes	Proces	6					
	ses	0					
Information Bit Payload (N_{INF})	Bits	120					
Number Code Blocks	Blocks	1					
Binary Channel Bits Per TTI	Bits	960					
Total Available SML's in UE	SML's	19200					
Number of SML's per HARQ Proc.	SML's	3200					
Coding Rate		0.15					
Number of Physical Channel Codes	Codes	1					
Modulation QPSK							
Note 1: The RMC is intended to be used for DC-HSDPA							
mode and both cells shall transr	mit with identi	ical					
parameters as listed in the table	.						

Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and Note 2:

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	escription Model		Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2015-05-09	2016-05-09
Sunol Sciences	Antenna IB3 A060611-3		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

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Test Data

Environmental Conditions

Temperature:	25.5 °C
Relative Humidity:	54 %
ATM Pressure:	99.9 kPa

The testing was performed by Dean Liu on 2015-06-12.

Conducted Power

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

		Peak Output Power (dBm)									
Band	Channel No.	GSM	GPRS 1 TX Slot	GPRS 2 TX Slot	GPRS 3 TX Slot	GPRS 4 TX Slot	EDGE 1 TX Slot	EDGE 2 TX Slot	EDGE 3 TX Slot	EDGE 4 TX Slot	
	128	31.49	31.48	29.36	27.56	25.64	25.81	25.44	24.15	21.95	
Cellular	190	31.57	31.55	29.48	27.72	25.82	26.05	25.59	24.21	21.83	
	251	31.53	31.50	29.51	27.78	25.84	26.00	25.62	24.12	21.57	
	512	28.22	28.25	25.90	24.35	22.37	23.62	23.41	21.78	19.50	
PCS	661	28.27	28.30	26.04	24.53	22.52	24.17	23.97	22.37	20.36	
	810	28.39	28.38	26.17	24.71	22.74	25.11	24.87	23.44	22.74	

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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).

WCDMA Band II

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			Average Output Power (dBm)							
Mode	3GPP Sub Test	Low Channel (Ave. Power)	Low Channel (PAR)	Middle Channel (Ave. Power)	Middle Channel (PAR)	High Channel (Ave. Power)	High Channel (PAR)			
Rel 99	1	21.28	2.92	21.28	3.28	21.24	3.24			
	1	20.95	2.94	20.48	3.27	20.96	3.23			
HSDPA	2	21.04	2.93	20.59	3.26	21.07	3.24			
HSDPA	3	21.18	2.94	20.78	3.26	21.25	3.21			
	4	21.06	2.89	20.56	3.25	21.01	3.22			
	1	20.88	2.89	20.53	3.13	20.87	3.18			
DC-HSDPA	2	21.13	2.91	20.51	3.21	21.11	3.22			
DC-HSDPA	3	21.11	2.95	20.73	3.22	21.16	3.16			
	4	21.15	2.86	20.50	3.24	20.69	3.13			
	1	21.02	2.91	20.63	3.28	20.54	3.21			
	2	21.01	2.92	20.67	3.25	20.80	3.24			
HSUPA	3	21.05	2.94	20.59	3.21	20.94	3.21			
	4	21.02	2.93	20.77	3.24	20.72	3.20			
	5	21.03	2.92	20.73	3.21	20.88	3.21			
HSPA+	1	20.87	2.91	20.45	3.17	20.83	3.18			

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WCDMA Band V

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			Average Output Power (dBm)						
Mode	3GPP Sub Test	Low Channel (Ave. Power)	Low Channel (PAR)	Middle Channel (Ave. Power)	Middle Channel (PAR)	High Channel (Ave. Power)	High Channel (PAR)		
Rel 99	1	21.89	3.41	21.72	3.15	21.99	3.26		
	1	21.05	3.25	21.50	3.14	21.14	3.22		
HSDPA	2	21.04	3.26	21.48	3.15	21.15	3.24		
HSDPA	3	21.03	3.29	21.49	3.12	21.14	3.24		
	4	21.02	3.39	21.51	3.18	21.12	3.23		
	1	20.96	3.14	21.43	3.22	21.17	3.25		
DC-HSDPA	2	20.93	3.12	21.37	3.17	21.12	3.21		
DC-HSDPA	3	20.88	3.26	21.35	3.23	21.11	3.19		
	4	20.91	3.13	21.48	3.20	21.16	3.21		
	1	20.76	3.38	21.10	3.08	20.75	3.24		
	2	20.75	3.40	21.12	3.09	20.74	3.22		
HSUPA	3	20.69	3.38	21.15	3.04	20.73	3.20		
	4	20.71	3.39	21.13	3.08	20.72	3.26		
	5	20.73	3.38	21.15	3.08	20.71	3.27		
HSPA+	1	20.58	3.32	20.85	3.16	20.73	3.19		

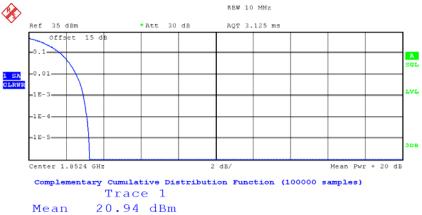
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WCDMA Band II

Peak-to-average ratio (PAR)

Low Channel

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 Mean
 20.94 dBm

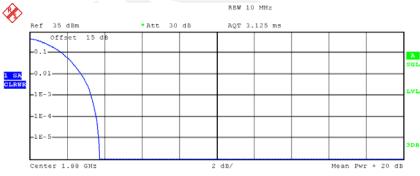
 Peak
 24.22 dBm

 Crest
 3.28 dB

10% @ 1.72 dB 1% @ 2.56 dB .1% @ 2.92 dB

Date: 5.JUN.2015 16:13:21

Middle Channel



Complementary Cumulative Distribution Function (100000 samples)

Trace 1
Mean 19.90 dBm
Peak 23.65 dBm
Crest 3.76 dB

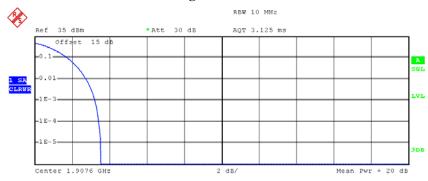
10% @ 1.76 dB
1% @ 2.80 dB
.1% @ 3.28 dB

Date: 5.JUN.2015 16:12:26

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High Channel

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Complementary Cumulative Distribution Function (100000 samples)

Trace 1
Mean 20.95 dBm
Peak 24.50 dBm
Crest 3.55 dB

10% @ 1.76 dB 1% @ 2.76 dB .1% @ 3.24 dB

Date: 5.JUN.2015 16:12:56

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ERP & EIRP

			Sı	ubstituted Me	thod	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
Frequency (MHz) Polar (H/V)	Receiver Reading (dBµV)	S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)				
			GSM 8	350_Middle C	hannel			
836.600	Н	105.23	30.3	0.0	1.0	29.3	38.5	9.2
836.600	V	103.96	32.2	0.0	1.0	31.2	38.5	7.3
			EGPRS	850_ Middle	Channel			
836.600	Н	100.35	25.4	0.0	1.0	24.4	38.5	14.1
836.600	V	98.27	26.5	0.0	1.0	25.5	38.5	13.0
	Band V_ Middle Channel							
836.600	Н	96.37	21.4	0.0	1.0	20.4	38.5	18.1
836.600	V	94.45	22.7	0.0	1.0	21.7	38.5	16.8
			PCS 19	00_ Middle (Channel			
1880.000	Н	88.14	16.5	11.7	1.4	26.8	33.0	6.2
1880.000	V	89.30	17.8	11.7	1.4	28.1	33.0	4.9
		•	EGPRS	1900_ Middle	Channel			
1880.000	Н	84.54	12.9	11.7	1.4	23.2	33.0	9.8
1880.000	V	84.87	13.4	11.7	1.4	23.7	33.0	9.3
	Band II Middle Channel							
1880.000	Н	81.40	9.8	11.7	1.4	20.1	33.0	12.9
1880.000	V	82.03	10.6	11.7	1.4	20.9	33.0	12.1

Report No.: RDG150603001-00C

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

Report No.: RDG150603001-00C

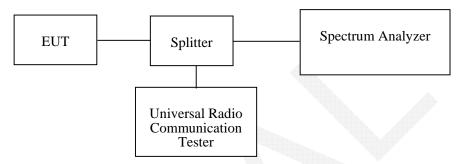
Applicable Standard

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

Test Procedure

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

The 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:	25.6~26.9 °C
Relative Humidity:	55~61 %
ATM Pressure:	99.9 ~100.2kPa

The testing was performed by Dean Liu on 2015-06-04 & 2015-06-23.

Test Mode: Transmitting

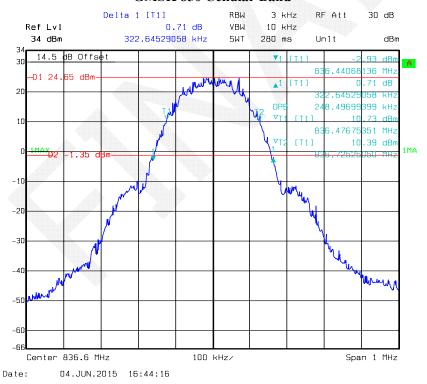
Test Result: Compliant. Please refer to the following table and plots.

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	Channel No.	Mode	99% Occupied Bandwidth (kHz)	26 dB Occupied Bandwidth (kHz)
Cellular	190	GSM	248	323
Celiulai	190	EDGE	244	320
PCS	661	PCS	246	315
rcs	001	EDGE	244	318
*********	9400	Rel 99	4108	4729
WCDMA Band II	9400	HSDPA	4108	4729
Bana n	9400	HSUPA	4108	4729
MCDM	4183	Rel 99	4108	4729
WCDMA Band V	4183	HSDPA	4108	4990
Dana v	4183	HSUPA	4108	4729

Report No.: RDG150603001-00C

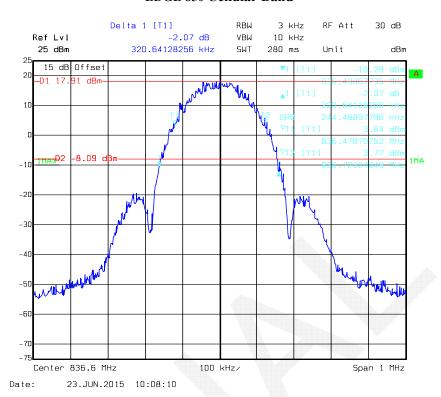
GMSK 850 Cellular Band



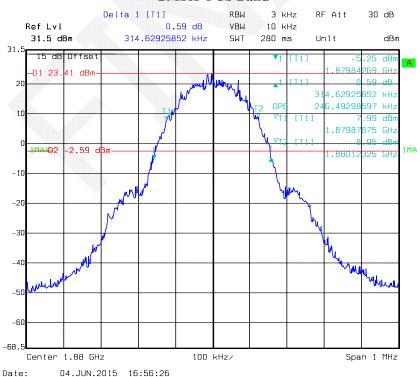
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EDGE 850 Cellular Band

Report No.: RDG150603001-00C



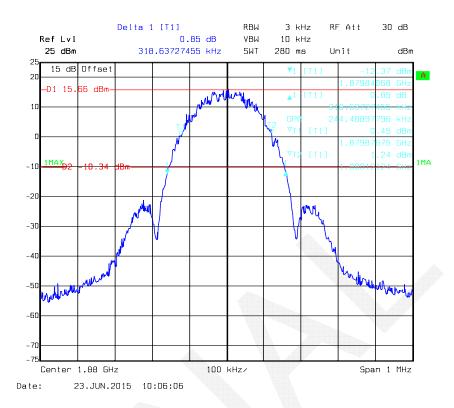
GMSK PCS Band



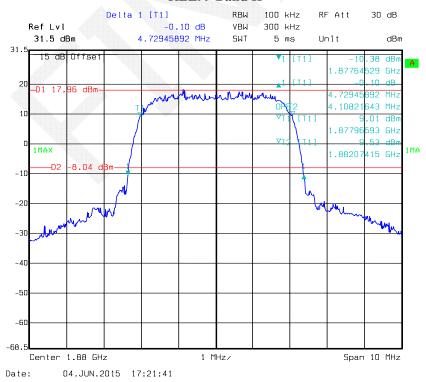
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EDGE PCS Band

Report No.: RDG150603001-00C



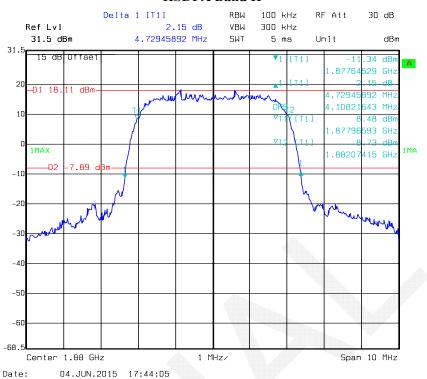
REL99 Band II



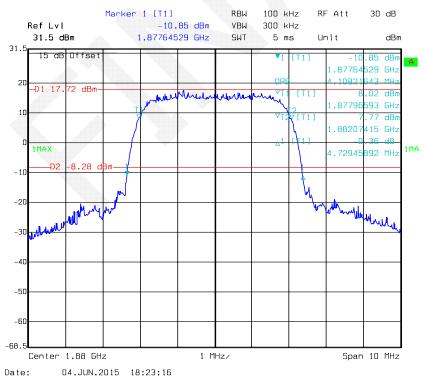
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HSDPA Band II

Report No.: RDG150603001-00C



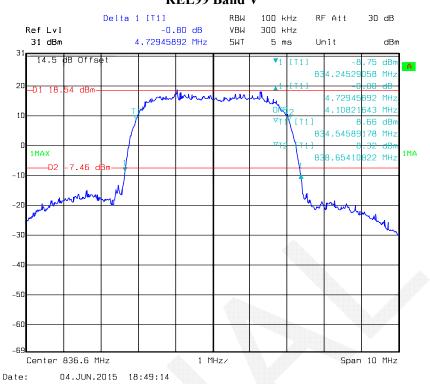
HSUPA Band II



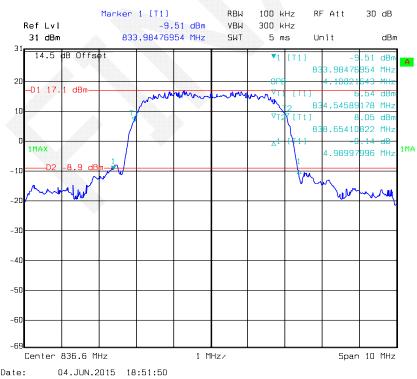
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REL99 Band V

Report No.: RDG150603001-00C



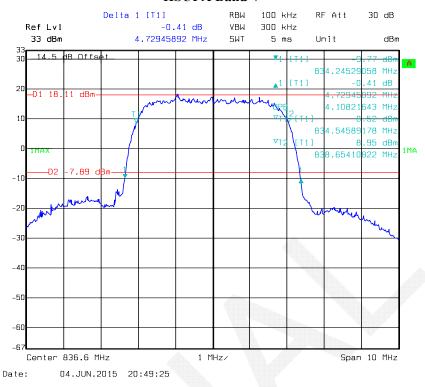
HSDPA Band V



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HSUPA Band V



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

Report No.: RDG150603001-00C

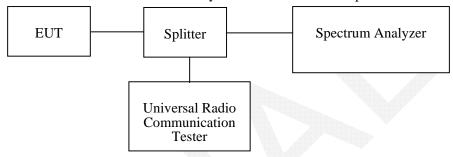
Applicable Standard

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:	26.8 °C
Relative Humidity:	54 %
ATM Pressure:	99.8 kPa

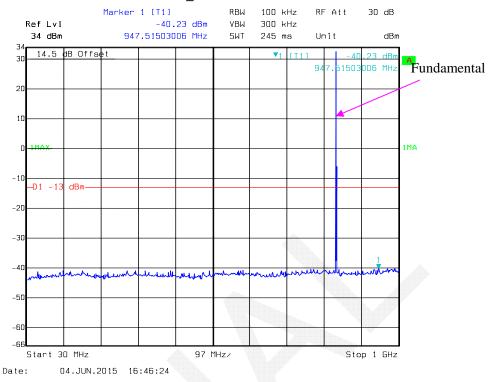
The testing was performed by Dean Liu on 2015-06-04.

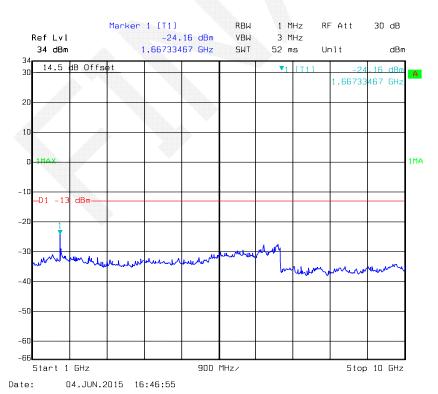
Please refer to the following plots.

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GSM850_Middle Channel

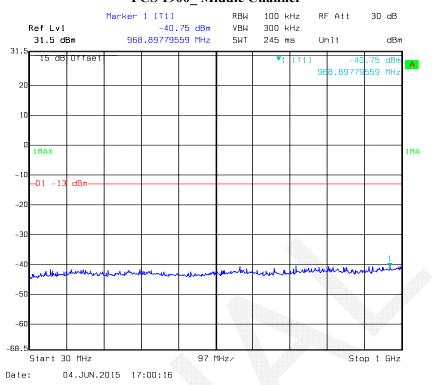




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PCS 1900_ Middle Channel

Report No.: RDG150603001-00C



RBW

VBW

SWT

1 MHz

3 MHz

110 ms

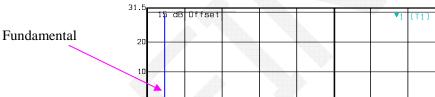
RF Att

Unit

30 dB

35 dBr

dBm



04.JUN.2015 17:01:40

Ref Lvl

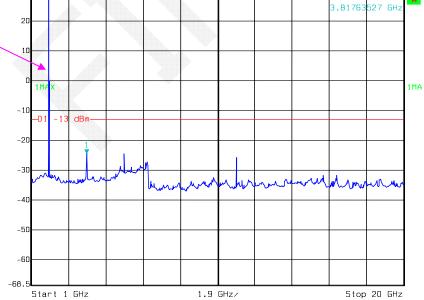
Date:

31.5 dBm

Marker 1 [T1]

-24.35 dBm

3.81763527 GHz



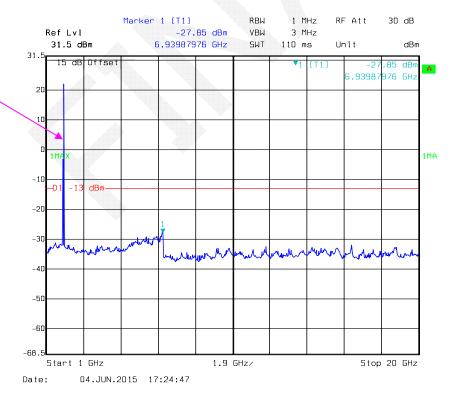
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REL99 Band II_ Middle Channel

Report No.: RDG150603001-00C



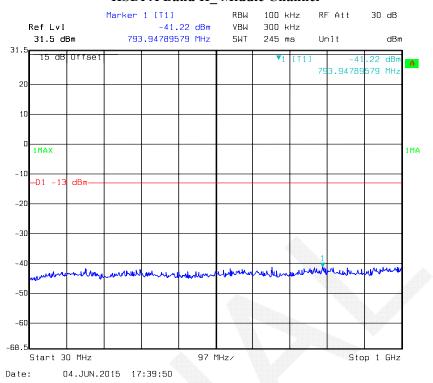
Fundamental



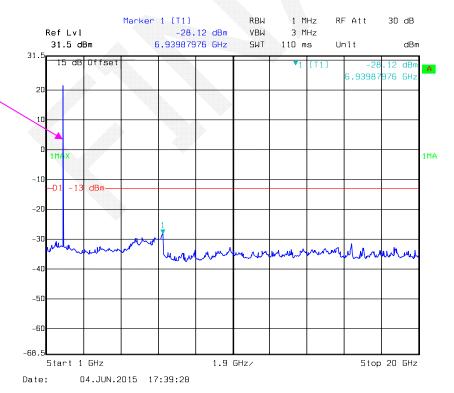
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HSDPA Band II_ Middle Channel

Report No.: RDG150603001-00C



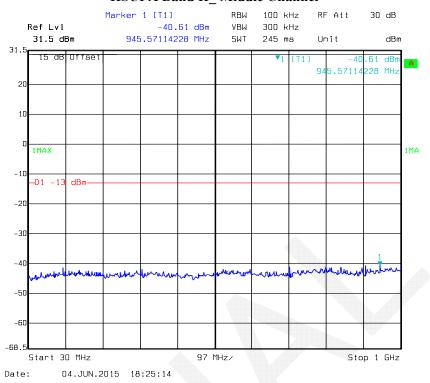
Fundamental



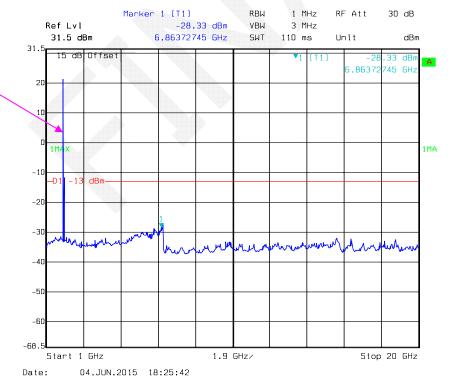
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HSUPA Band II_ Middle Channel

Report No.: RDG150603001-00C



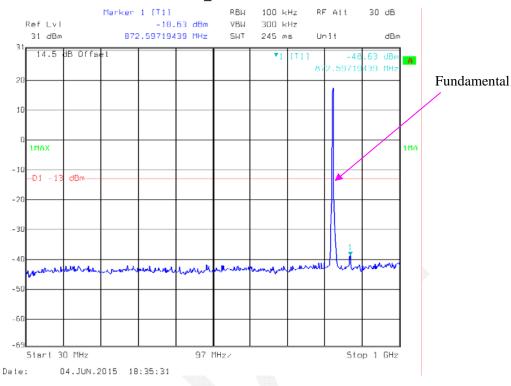
Fundamental

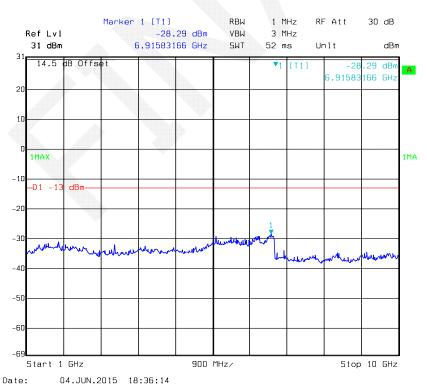


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Report No.: RDG150603001-00C



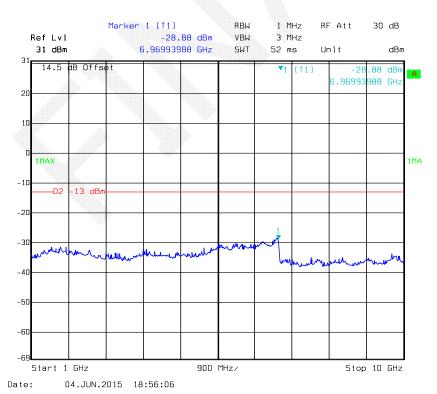




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$HSDPA \ Band \ V_ \ Middle \ Channel$

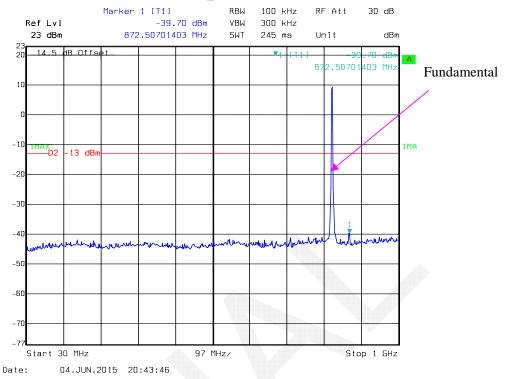


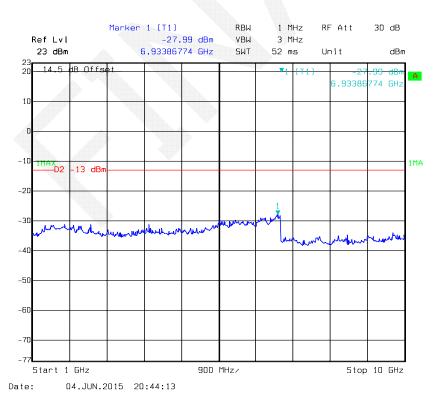


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Report No.: RDG150603001-00C







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

Report No.: RDG150603001-00C

Applicable Standard

FCC § 2.1053, §22.917 and § 24.238.

Test Procedure

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

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

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

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

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

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

Test Equipment List and Details

		VIII III			
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2015-05-09	2016-05-09
Sunol Sciences	Antenna	JB3	A060611-3	2014-07-28	2017-07-27
HP	Amplifier	8447E	2434A02181	2014-09-01	2015-09-01
R&S	Spectrum Analyzer	FSEM	DE31388	2015-05-09	2016-05-09
ETS LINDGREN	Horn Antenna	3115	000 527 35	2012-09-06	2015-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2015-02-19	2016-02-19
Giga	Signal Generator	1026	320408	2015-05-09	2016-05-09
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
TDK RF	Horn Antenna	HRN-0118	130 084	2012-09-06	2015-09-06

^{*} 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:	25.5 °C
Relative Humidity:	54 %
ATM Pressure:	100.2 kPa

The testing was performed by Dean Liu on 2015-06-11.

EUT Operation Mode: Transmitting

Cellular Band

Report No.: RDG150603001-00C

30 MHz-10 GHz:

		D	S	ubstituted Me	thod	Alaralasta				
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)		
	Middle Channel									
1673.200	Н	55.78	-45.3	10.6	1.5	-36.2	-13.0	23.2		
1673.200	V	55.45	-45.9	10.6	1.5	-36.8	-13.0	23.8		
2509.800	Н	40.07	-58.0	13.1	2.8	-47.7	-13.0	34.7		
2509.800	V	39.77	-57.3	13.1	2.8	-47.0	-13.0	34.0		

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

WCDMA Band V

		Dansiron	Sı	ubstituted Me	thod	Abaaluta		
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Mi	ddle Channel				
1673.200	Н	44.75	-56.3	10.6	1.5	-47.2	-13.0	34.2
1673.200	V	45.00	-56.4	10.6	1.5	-47.3	-13.0	34.3

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:

		Dansimon	Sı	ubstituted Me	thod	Absoluto		
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
	Middle Channel							
3760.000	Н	59.77	-34.5	13.8	2.9	-23.6	-13.0	10.6
3760.000	V	58.54	-34.5	13.8	2.9	-23.6	-13.0	10.6

Report No.: RDG150603001-00C

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

WCDMA Band II

		D	Si	ubstituted Me	thod	Abaalata		
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)
			Mi	ddle Channel				
3760.000	Н	39.95	-54.3	13.8	2.9	-43.4	-13.0	30.4
3760.000	V	41.45	-51.6	13.8	2.9	-40.7	-13.0	27.7

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.

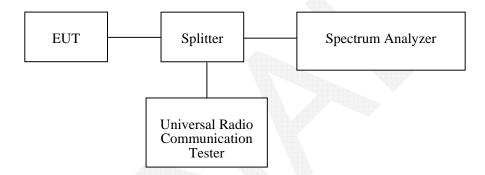
Report No.: RDG150603001-00C

According to \$24.238(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:	25.6~26.8°C
Relative Humidity:	55~59%
ATM Pressure:	99.9~100.2 kPa

The testing was performed by Dean Liu on 2015-06-04 & 2015-06-23.

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Test Mode: Transmitting

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

ъ. т	3.5.3	D 151	Reading	Limit
Band	Mode	Band Edge	dBm	dBm
	GSM	Left	-14.84	≤-13
Cellular	USM	Right	-14.60	≤-13
Cenular	EDGE	Left	-24.99	≤-13
	EDGE	Right	-23.84	≤-13
	PCS	Left	-19.80	≤-13
PCS	PCS	Right	-17.57	≤-13
PCS	EDGE	Left	-29.66	≤-13
		Right	-27.89	≤-13
	Rel 99	Left	-19.66	≤-13
		Right	-16.83	≤-13
WCDMA	HSDPA	Left	-18.68	≤-13
Band II		Right	-18.44	≤-13
	HSUPA	Left	-17.62	≤-13
	пзога	Right	-19.11	≤-13
	Rel 99	Left	-16.71	≤-13
WCDMA	Kei 99	Right	-15.32	≤-13
	HSDPA	Left	-16.37	≤-13
Band V	порга	Right	-14.27	≤-13
	HSUPA	Left	-25.72	≤-13
	nsurA	Right	-20.11	≤-13

Report No.: RDG150603001-00C

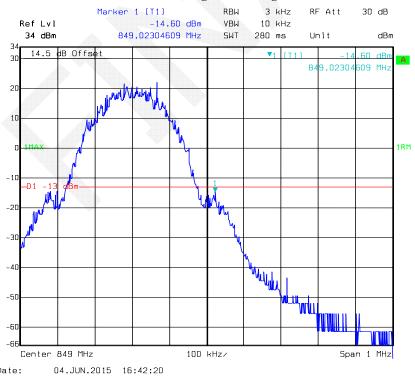
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GSM 850, Left Band Edge

Report No.: RDG150603001-00C

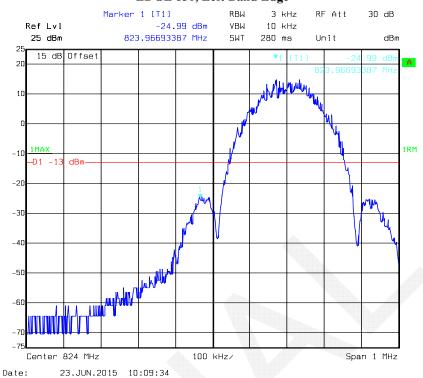


GSM 850, Right Band Edge



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EDGE 850, Right Band Edge



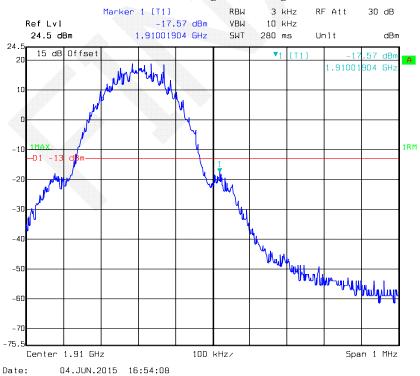
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GSM 1900, Left Band Edge

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GSM 1900, Right Band Edge



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EDGE 1900, Left Band Edge

Report No.: RDG150603001-00C



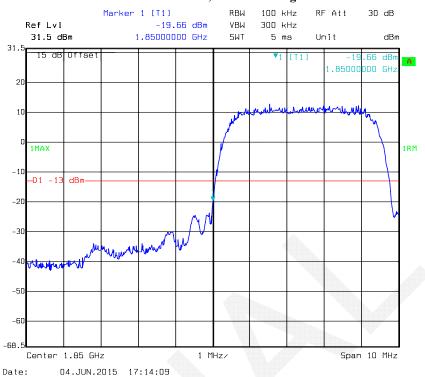
EDGE 1900, Right Band Edge



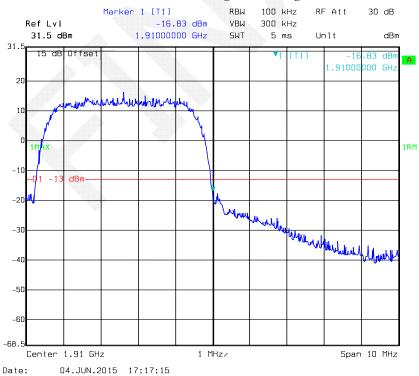
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REL99 Band II, Left Band Edge

Report No.: RDG150603001-00C



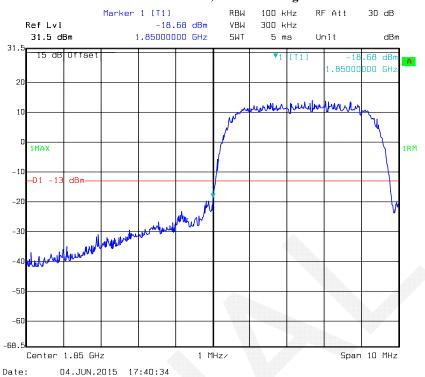
REL99 Band II, Right Band Edge



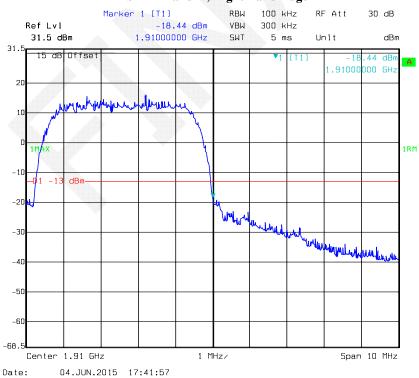
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HSDPA Band II, Left Band Edge

Report No.: RDG150603001-00C



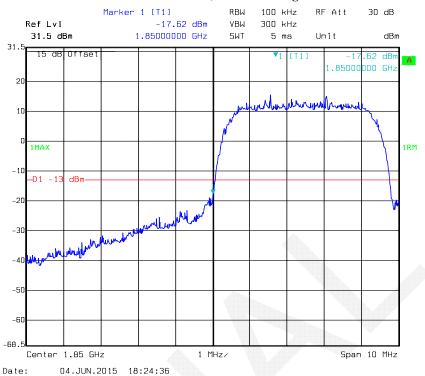
HSDPA Band II, Right Band Edge



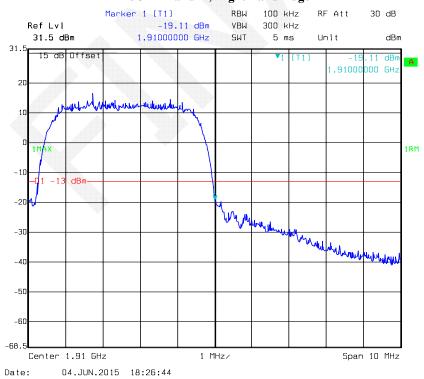
FCC Part 22H/24E Page 47 of 58

HSUPA Band II, Left Band Edge

Report No.: RDG150603001-00C



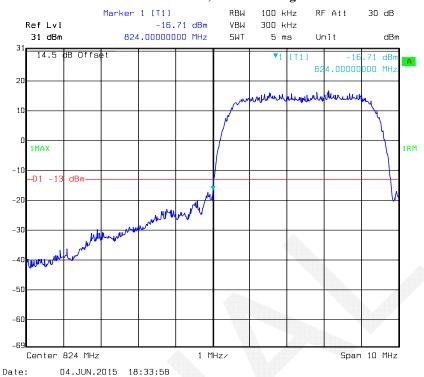
HSUPA Band II, Right Band Edge



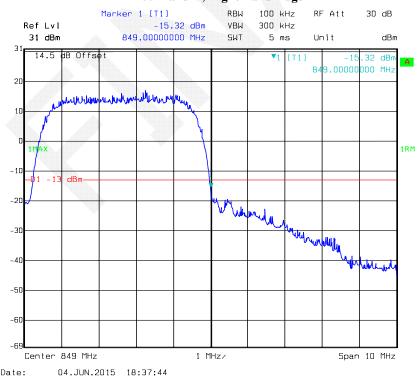
FCC Part 22H/24E Page 48 of 58

REL99 Band V, Left Band Edge

Report No.: RDG150603001-00C



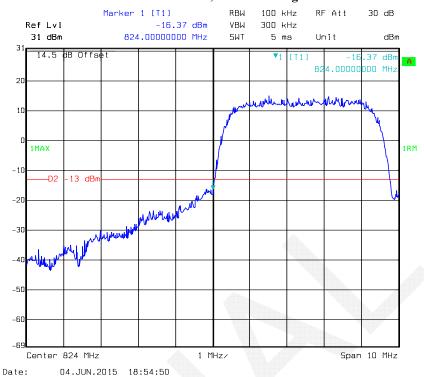
REL99 Band V, Right Band Edge



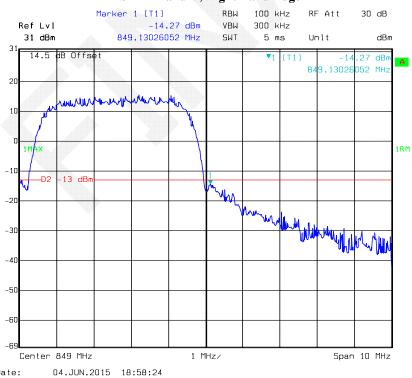
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HSDPA Band V, Left Band Edge

Report No.: RDG150603001-00C



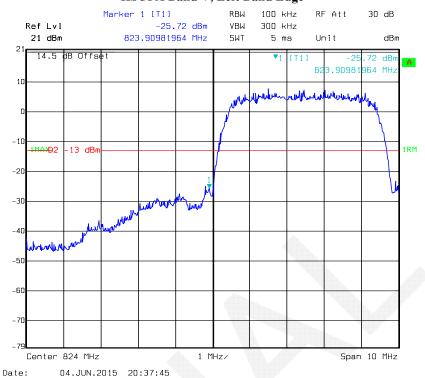
HSDPA Band V, Right Band Edge



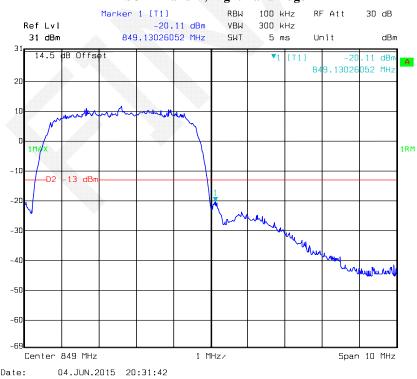
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HSUPA Band V, Left Band Edge

Report No.: RDG150603001-00C



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:

-	TD 1	c T	• •	. 4	D 11'	3 6 1 11 0 1
Frequency	Tolerance	for Trans	mitters in	the	Public	Mobile Services

Report No.: RDG150603001-00C

Frequency Range (MHz)	Base, fixed (ppm)	Mobile ≤ 3 watts (ppm)	Mobile ≤ 3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929.	5.0	N/A	N/A
929 to 960.	1.5	N/A	N/A
2110 to 2220	10.0	N/A	N/A

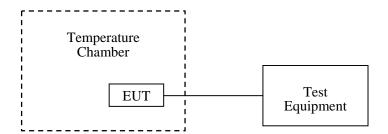
According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

Test Procedure

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

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

Frequency Stability vs. Voltage: An external variable DC power supply was connected to the battery terminals of the equipment under test. The voltage was set 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.: RDG150603001-00C

Test Data

Environmental Conditions

Temperature:	27.9 °C
Relative Humidity:	60 %
ATM Pressure:	100.2kPa

The testing was performed by Dean Liu on 2015-06-12.

Cellular Band (Part 22H)

G	GMSK, Middle Channel, f _c = 836.6 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit	
${\mathbb C}$	V_{DC}	Hz	ppm	ppm	
-30	3.7	-35	-0.042	2.5	
-20	3.7	-29	-0.035	2.5	
-10	3.7	-21	-0.025	2.5	
0	3.7	-19	-0.023	2.5	
10	3.7	-32	-0.038	2.5	
20	3.7	-27	-0.032	2.5	
30	3.7	-26	-0.031	2.5	
40	3.7	-28	-0.033	2.5	
50	3.7	-30	-0.036	2.5	
20	3.5	-28	-0.033	2.5	
20	4.2	-33	-0.039	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).

WCDMA Band V: Re199

	Middle Channel, f _c = 836.6 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit	
${\mathbb C}$	V_{DC}	Hz	ppm	ppm	
-30	3.7	19	0.023	2.5	
-20	3.7	17	0.020	2.5	
-10	3.7	18	0.022	2.5	
0	3.7	16	0.019	2.5	
10	3.7	14	0.017	2.5	
20	3.7	12	0.014	2.5	
30	3.7	13	0.016	2.5	
40	3.7	15	0.018	2.5	
50	3.7	17	0.020	2.5	
20	3.5	20	0.024	2.5	
20	4.2	19	0.023	2.5	

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Middle Channel, f _c = 836.6 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
ပ	V_{DC}	Hz	ppm	ppm
-30	3.7	21	0.025	2.5
-20	3.7	18	0.022	2.5
-10	3.7	20	0.024	2.5
0	3.7	19	0.023	2.5
10	3.7	15	0.018	2.5
20	3.7	13	0.016	2.5
30	3.7	14	0.017	2.5
40	3.7	18	0.022	2.5
50	3.7	17	0.020	2.5
20	3.5	16	0.019	2.5
20	4.2	20	0.024	2.5

WCDMA Band V: HSUPA

	Middle Channel, f _c = 836.6 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit	
${\mathbb C}$	V_{DC}	Hz	ppm	ppm	
-30	3.7	15	0.018	2.5	
-20	3.7	13	0.016	2.5	
-10	3.7	14	0.017	2.5	
0	3.7	10	0.012	2.5	
10	3.7	19	0.023	2.5	
20	3.7	17	0.020	2.5	
30	3.7	18	0.022	2.5	
40	3.7	15	0.018	2.5	
50	3.7	17	0.020	2.5	
20	3.5	11	0.013	2.5	
20	4.2	18	0.022	2.5	

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PCS Band (Part 24E)

GMSK, Middle Channel, f _c = 1880.0 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
Ç	V_{DC}	Hz	ppm	
-30	3.7	-37	-0.020	Pass
-20	3.7	-36	-0.019	Pass
-10	3.7	-34	-0.018	Pass
0	3.7	-31	-0.016	Pass
10	3.7	-35	-0.019	Pass
20	3.7	-30	-0.016	Pass
30	3.7	-28	-0.015	Pass
40	3.7	-29	-0.015	Pass
50	3.7	-33	-0.018	Pass
20	3.5	-40	-0.021	Pass
20	4.2	-32	-0.017	Pass

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8	8PSK, Middle Channel, f _c = 1880.0 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result	
℃	V_{DC}	Hz	ppm		
-30	3.7	-51	-0.027	Pass	
-20	3.7	-45	-0.024	Pass	
-10	3.7	-39	-0.021	Pass	
0	3.7	-46	-0.024	Pass	
10	3.7	-42	-0.022	Pass	
20	3.7	-38	-0.020	Pass	
30	3.7	-39	-0.021	Pass	
40	3.7	-39	-0.021	Pass	
50	3.7	-43	-0.023	Pass	
20	3.5	-44	-0.023	Pass	
20	4.2	-50	-0.027	Pass	

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Middle Channel, f _c = 1880.0 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
ပ	V _{DC}	Hz	ppm	
-30	3.7	13	0.007	Pass
-20	3.7	12	0.006	Pass
-10	3.7	17	0.009	Pass
0	3.7	10	0.005	Pass
10	3.7	14	0.007	Pass
20	3.7	14	0.007	Pass
30	3.7	16	0.009	Pass
40	3.7	17	0.009	Pass
50	3.7	15	0.008	Pass
20	3.5	16	0.009	Pass
20	4.2	10	0.005	Pass

WCDMA Band II: HSDPA

	Middle Channel, f _c = 1880.0 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result	
${\mathbb C}$	V_{DC}	Hz	ppm		
-30	3.7	-21	-0.011	Pass	
-20	3.7	-19	-0.010	Pass	
-10	3.7	-17	-0.009	Pass	
0	3.7	-15	-0.008	Pass	
10	3.7	-18	-0.010	Pass	
20	3.7	-22	-0.012	Pass	
30	3.7	-21	-0.011	Pass	
40	3.7	-19	-0.010	Pass	
50	3.7	-17	-0.009	Pass	
20	3.5	-20	-0.011	Pass	
20	4.2	-18	-0.010	Pass	

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WCDMA Band II: HSUPA

Middle Channel, f _c = 1880.0 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
C	V _{DC}	Hz	ppm	
-30	3.7	15	0.008	Pass
-20	3.7	13	0.007	Pass
-10	3.7	18	0.010	Pass
0	3.7	14	0.007	Pass
10	3.7	16	0.009	Pass
20	3.7	12	0.006	Pass
30	3.7	13	0.007	Pass
40	3.7	14	0.007	Pass
50	3.7	16	0.009	Pass
20	3.5	15	0.008	Pass
20	4.2	13	0.007	Pass

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

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