

FCC PART 22H, PART 24E
FCC PART 27
MEASUREMENT AND TEST REPORT

For

Dynamics Hong Kong Limited

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FCC ID: C89PRIME4PLUS

Report Type: Original Report	Product Type: Mobile Phone
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Report Number: RDG150226001-00C	
Report Date: 2015-03-13	
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Dynamics Hong Kong Limited's* product, model number: *PRIME4.0Plus (FCC ID: C89PRIME4PLUS)* (the "EUT") in this report was a *Mobile Phone*, which was measured approximately: 12.5 cm (L) x 6.4 cm (W) x 1.1 cm (H), rated input voltage: DC 3.7V rechargeable Li-ion battery or DC5V charging from adapter.

Adapter Information: DVE
Model: DSC-5CU-05 050 100
INPUT: 100-240V~ 50/60Hz, 0.2A
Output: 5V, 1A

Note: The series product, model PRIME4.0Plus and Ring4.0Plus are electrically identical, the difference between them is just the model name, we selected PRIME4.0Plus fully testing, the details were explained in the attached declaration letter.

All measurement and test data in this report was gathered from production sample serial number: PRIME 4.0Plus W 10001 (Assigned by Applicant). The EUT was received on 2015-02-27.

Objective

This report is prepared on behalf of *Dynamics Hong Kong Limited* in accordance with:
Part 2-Subpart J, Part 22-Subpart H, and Part 24-Subpart E of the Federal Communications Commission's rules.
Part 2, Part 27 of the Federal Communication Commissions 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: C89PRIME4PLUS
FCC Part 15C DSS submissions with FCC ID: C89PRIME4PLUS
FCC Part 15C DTS submissions with FCC ID: C89PRIME4PLUS

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
Part 27 – Miscellaneous wireless communications services

Applicable Standards: TIA/EIA 603-D-2010, ANSI C63.4-2009, TIA-1037, TIA/EIA 603-D.

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

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

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.

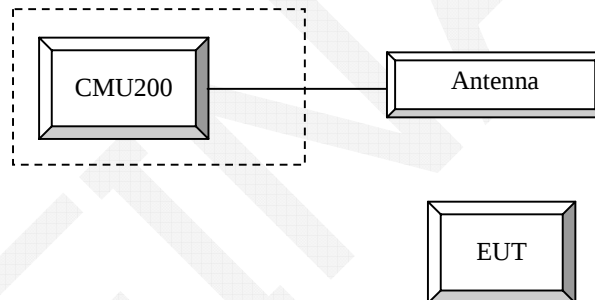
Equipment Modifications

No modification was made to the EUT.

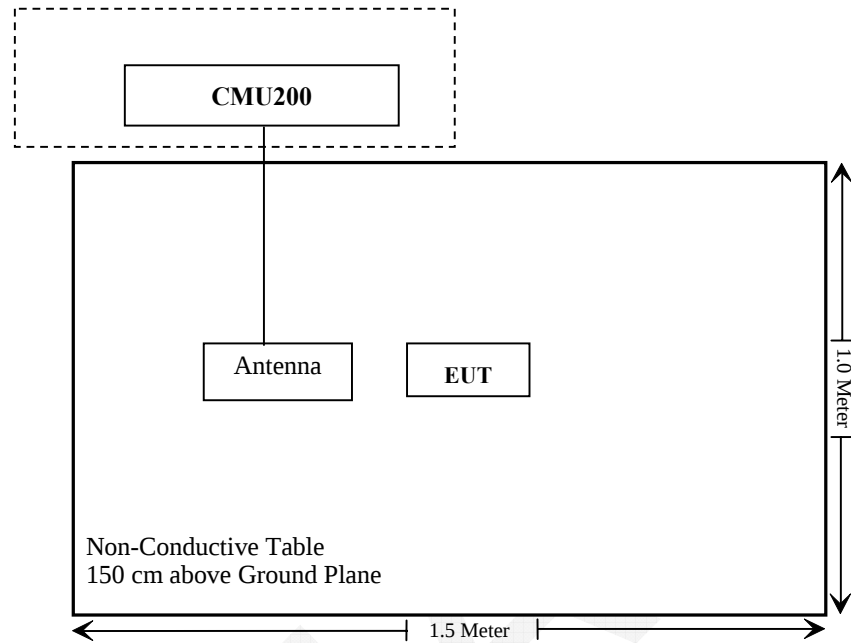
Support Equipment List and Details

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

Configuration of Test Setup



Block Diagram of Test Setup



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); § 27.50	RF Output Power	Compliance
§ 2.1047	Modulation Characteristics	Not Applicable
§ 2.1049; § 22.905 § 22.917; § 24.238; §27.53	Occupied Bandwidth	Compliance
§ 2.1051, § 22.917 (a); § 24.238 (a); §27.53	Spurious Emissions at Antenna Terminal	Compliance
§ 2.1053 § 22.917 (a); § 24.238 (a); §27.53	Field Strength of Spurious Radiation	Compliance
§ 22.917 (a); § 24.238 (a); §27.53	Out of band emission, Band Edge	Compliance
§ 2.1055 § 22.355; § 24.235; §27.54	Frequency stability vs. temperature Frequency stability vs. voltage	Compliance

FCC §1.1310 & §2.1093- RF EXPOSURE

Applicable Standard

FCC§1.1310 and §2.1093.

Test Result

Compliant, please refer to the SAR report: RDG150226001-20.

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FCC §2.1047 - MODULATION CHARACTERISTIC

According to FCC § 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) & § 27.50 - 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.

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 FCC §2.1046 and §27.50 (d), (4) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP. Fixed stations operating in the 1710-1755 MHz band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in these bands 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**

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 + only

MS Signal

> 33 dBm for GSM 850

> 30 dBm for GSM 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 desired test channel [Enter the same channel number for TCH channel (test channel) and BCCH channel]

Channel Type > Off

P0 > 4 dB

TCH > choose desired test channel

Hopping > Off

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

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 desired 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

UMTS Rel 99

	Mode	Rel99
	Subtest	-
WCDMA General Settings	Loopback Mode	Test Mode 1
	Rel99 RMC	12.2kbps RMC
	HSDPA FRC	Not Applicable
	HSUPA Test	Not Applicable
	Power Control Algorithm	Algorithm2
	β_c	Not Applicable
	β_d	Not Applicable
	β_{ec}	Not Applicable
	β_c/β_d	8/15
	β_{hs}	Not Applicable
	β_{ed}	Not Applicable

UMTS Rel 6 HSDPA

	Mode	Rel6 HSDPA	Rel6 HSDPA	Rel6 HSDPA	Rel6 HSDPA
	Subtest	1	2	3	4
WCDMA General Settings	Loopback Mode	Test Mode 1			
	Rel99 RMC	12.2kbps RMC			
	HSDPA FRC	H-Set1			
	HSUPA Test	Not Applicable			
	Power Control Algorithm	Algorithm 2			
	β_c	2/15	12/15	15/15	15/15
	β_d	15/15	15/15	8/15	4/15
	β_{ec}	-	-	-	-
	β_c/β_d	2/15	12/15	15/8	15/4
	β_{hs}	4/15	24/15	30/15	30/15
HSDPA Specific Settings	β_{ed}	Not Applicable			
	DACK	8			
	DNAK	8			
	DCQI	8			
	Ack-Nack repetition factor	3			
	CQI Feedback (Table 5.2B.4)	4ms			
	CQI Repetition Factor (Table 5.2B.4)	2			
	$A_{hs} = \beta_{hs}/\beta_c$	30/15			

UMTS Rel 6 HSPA (HSDPA & HSUPA)

	Mode	Rel6 HSUPA	Rel6 HSUPA	Rel6 HSUPA	Rel6 HSUPA	Rel6 HSUPA
	Subtest	1	2	3	4	5
WCDMA General Settings	Loopback Mode	Test Mode 1				
	Rel99 RMC	12.2kbps RMC				
	HSDPA FRC	H-Set1				
	HSUPA Test	HSUPA Loopback				
	Power Control Algorithm	Algorithm2				
	β_c	11/15	6/15	15/15	2/15	15/15
	β_d	15/15	15/15	9/15	15/15	0
	β_{ec}	209/225	12/15	30/15	2/15	5/15
	β_c/β_d	11/15	6/15	15/9	2/15	-
	β_{hs}	22/15	12/15	30/15	4/15	5/15
HSDPA Specific Settings	β_{ed}	1309/225	94/75	47/15	56/75	47/15
	DACK	8				
	DNAK	8				
	DCQI	8				
	Ack-Nack repetition factor	3				
	CQI Feedback (Table 5.2B.4)	4ms				
	CQI Repetition Factor (Table 5.2B.4)	2				
	$A_{hs} = \beta_{hs}/\beta_c$	30/15				
HSUPA Specific Settings	D E-DPCCH	6	8	8	5	7
	DHARQ	0	0	0	0	0
	AG Index	20	12	15	17	12
	ETFCI (from 34.121 Table C.11.1.3)	75	67	92	71	67
	Associated Max UL Data Rate kbps	242.1	174.9	482.8	205.8	308.9
	Reference E_TFCIs	E-TFCI 11 E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO 23 E-TFCI 75 E-TFCI PO 26 E-TFCI 81 E-TFCI PO 27		E-TFCI 11 E-TFCI PO 4 E-TFCI 92 E-TFCI PO 18		E-TFCI 11 E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO 23 E-TFCI 75 E-TFCI PO 26 E-TFCI 81 E-TFCI PO 27

Radiated method:

ANSI/TIA 603-D section 2.2.17

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2014-05-09	2015-05-09
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	2014-05-09	2015-05-09
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	2014-05-09	2015-05-09
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).

Test Data**Environmental Conditions**

Temperature:	20.1~22.9 °C
Relative Humidity:	69~73 %
ATM Pressure:	100.8~101.7 kPa

The testing was performed by Dean Liu from 2015-03-07 to 2015-03-12.

Conducted Power**Cellular Band (Part 22H) & PCS Band (Part 24E)**

Band	Channel No.	Peak Output Power (dBm)				
		GSM	GPRS 1 TX Slot	GPRS 2 TX Slot	GPRS 3 TX Slot	GPRS 4 TX Slot
Cellular	128	32.10	32.12	31.89	28.81	27.89
	190	31.90	31.87	30.73	28.53	27.62
	251	31.80	31.73	30.53	28.41	27.43
PCS	512	29.89	28.20	27.00	25.07	24.64
	661	29.64	28.67	27.54	25.57	24.75
	810	29.65	28.38	27.31	25.26	25.04

WCDMA Band II

Mode	3GPP Sub Test	Average Output Power (dBm)					
		Low Channel (Ave. Power)	Low Channel (PAR)	Middle Channel (Ave. Power)	Middle Channel (PAR)	High Channel (Ave. Power)	High Channel (PAR)
Rel 99	1	21.01	2.99	21.80	2.17	20.75	3.15
HSDPA	1	21.14	2.55	21.76	2.20	20.46	2.96
	2	21.21	2.57	21.57	2.17	20.31	3.02
	3	21.49	2.30	20.86	2.01	20.37	2.97
	4	21.02	2.93	21.00	1.94	20.42	2.93
HSUPA	1	21.14	3.06	21.25	2.23	20.56	2.93
	2	20.74	2.13	20.88	1.78	20.43	2.76
	3	21.08	2.15	21.45	2.05	20.44	2.90
	4	21.23	2.25	20.81	1.91	20.44	3.19
	5	21.38	2.34	21.42	1.87	20.60	3.19

WCDMA Band V

Mode	3GPP Sub Test	Average Output Power (dBm)					
		Low Channel (Ave. Power)	Low Channel (PAR)	Middle Channel (Ave. Power)	Middle Channel (PAR)	High Channel (Ave. Power)	High Channel (PAR)
Rel 99	1	22.98	2.95	22.78	2.21	22.75	3.16
HSDPA	1	22.24	2.95	21.83	2.10	21.89	3.08
	2	22.65	3.06	22.10	2.10	21.97	3.10
	3	21.46	2.92	21.40	2.15	20.77	3.22
	4	21.46	3.01	21.56	2.25	21.31	3.07
HSUPA	1	21.43	2.91	20.75	2.12	20.98	3.15
	2	21.60	3.05	21.02	2.26	21.58	3.09
	3	20.76	2.93	20.77	2.24	21.52	3.20
	4	21.52	2.93	21.34	2.23	20.83	3.10
	5	21.18	2.91	21.49	2.23	20.92	3.16

AWS Band (PART 27)**WCDMA Band IV**

Mode	3GPP Sub Test	Average Output Power (dBm)					
		Low Channel (Ave. Power)	Low Channel (PAR)	Middle Channel (Ave. Power)	Middle Channel (PAR)	High Channel (Ave. Power)	High Channel (PAR)
Rel 99	1	21.93	2.91	21.45	2.1	21.32	3.23
HSDPA	1	21.12	3.03	21.12	2.22	21.45	3.25
	2	21.07	3.01	21.07	2.14	21.23	3.11
	3	21.04	3.04	21.04	2.27	21.42	3.25
	4	21.41	2.97	21.41	2.12	21.00	2.86
HSUPA	1	21.15	3	21.42	2.19	21.49	3.08
	2	20.80	3.07	21.39	2.08	21.27	3.13
	3	21.23	2.91	21.13	2.15	21.36	3.06
	4	21.68	3.01	21.25	2.23	20.81	2.99
	5	20.76	2.94	21.13	2.25	21.08	2.92

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

ERP & EIRP

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM 850								
824.200	H	93.39	18.4	0.0	1	17.4	38.45	21.05
824.200	V	102.58	30.7	0.0	1	29.7	38.45	8.75
836.600	H	94.79	19.9	0.0	1	18.9	38.45	19.55
836.600	V	102.99	31.2	0.0	1	30.2	38.45	8.25
848.800	H	94.71	19.9	0.0	1	18.9	38.45	19.55
848.800	V	103.54	31.9	0.0	1	30.9	38.45	7.55
WCDMA Band V								
826.400	H	86.12	11.1	0.0	1	10.1	38.45	28.35
826.400	V	92.10	20.2	0.0	1	19.2	38.45	19.25
836.600	H	87.22	12.3	0.0	1	11.3	38.45	27.15
836.600	V	92.20	20.4	0.0	1	19.4	38.45	19.05
846.600	H	86.98	12.1	0.0	1	11.1	38.45	27.35
846.600	V	92.59	20.9	0.0	1	19.9	38.45	18.55
PCS 1900								
1850.200	H	82.23	10.4	11.4	1.4	20.4	33.01	12.61
1850.200	V	87.75	15.8	11.4	1.4	25.8	33.01	7.21
1880.000	H	82.32	10.7	11.7	1.4	21.0	33.01	12.01
1880.000	V	88.43	17	11.7	1.4	27.3	33.01	5.71
1909.800	H	82.77	11.4	11.8	1.4	21.8	33.01	11.21
1909.800	V	87.34	16.3	11.8	1.4	26.7	33.01	6.31
WCDMA Band II								
1852.400	H	74.34	2.5	11.5	1.4	12.6	33.01	20.41
1852.400	V	79.43	7.5	11.5	1.4	17.6	33.01	15.41
1880.000	H	74.87	3.3	11.7	1.4	13.6	33.01	19.41
1880.000	V	80.25	8.8	11.7	1.4	19.1	33.01	13.91
1907.400	H	73.64	2.3	11.8	1.4	12.7	33.01	20.31
1907.400	V	79.51	8.4	11.8	1.4	18.8	33.01	14.21
WCDMA Band IV								
1712.400	H	73.85	0.6	10.8	1.4	10.0	30.00	20
1712.400	V	83.48	10	10.8	1.4	19.4	30.00	10.6
1732.600	H	73.64	0.6	10.9	1.4	10.1	30.00	19.9
1732.600	V	83.77	10.4	10.9	1.4	19.9	30.00	10.1
1752.600	H	73.26	0.5	10.9	1.4	10.0	30.00	20
1752.600	V	83.61	10.5	10.9	1.4	20.0	30.00	10

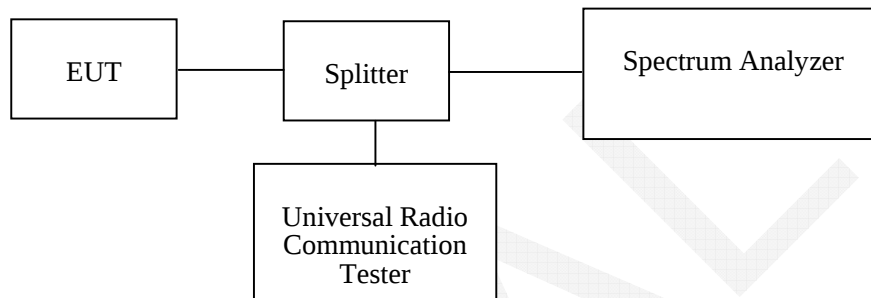
FCC §2.1049, §22.917, §22.905 & §24.238 & §27.53- OCCUPIED BANDWIDTH**Applicable Standard**

FCC §2.1049, §22.917, §22.905, §24.238 and §27.53.

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	2014-05-09	2015-05-09

* **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:	22.1~22.6 °C
Relative Humidity:	64~70 %
ATM Pressure:	101.1~101.3 kPa

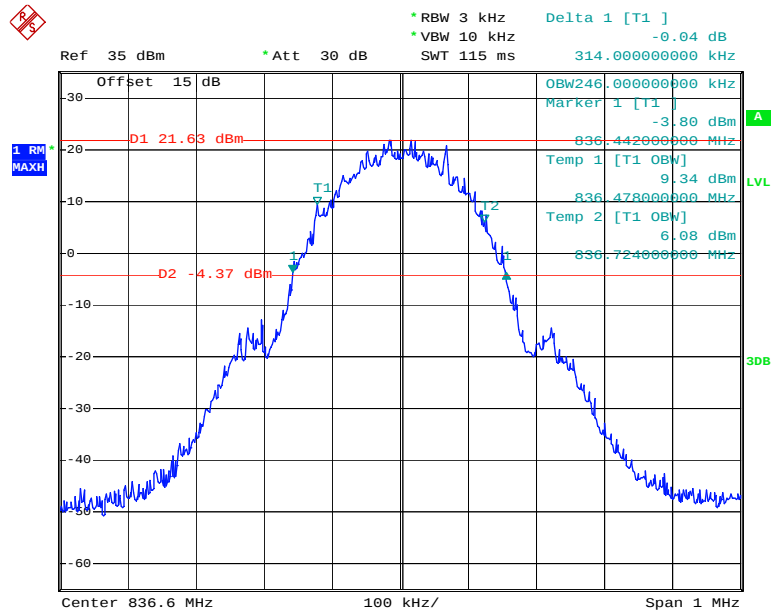
The testing was performed by Dean Liu from 2015-03-05 and 2015-03-09.

Test Mode: Transmitting

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

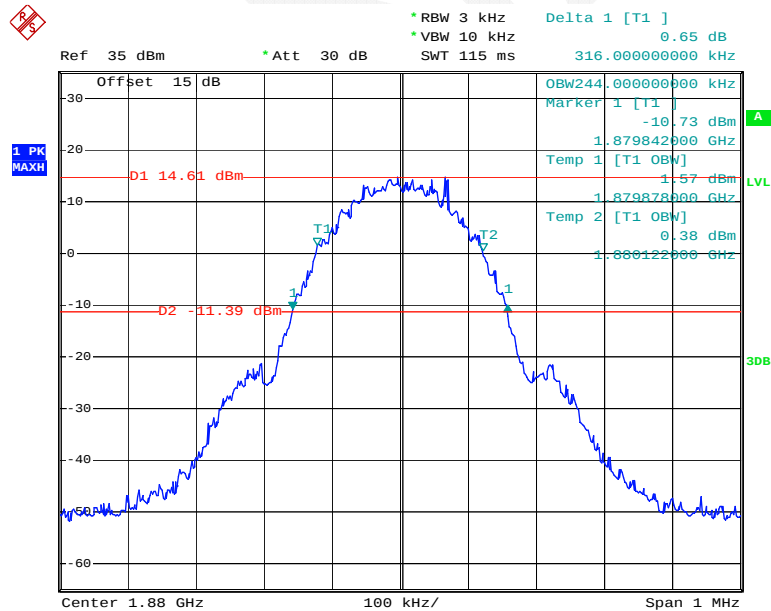
Band	Channel No.	Mode	99% Occupied Bandwidth (kHz)	26 dB Occupied Bandwidth (kHz)
Cellular	190	GSM	246	314
PCS	661	PCS	244	316
WCDMA Band II	9400	Rel 99	4220	4780
	9400	HSDPA	4200	4740
	9400	HSUPA	4180	4740
WCDMA Band IV	1413	Rel 99	4200	4780
	1413	HSDPA	4220	4780
	1413	HSUPA	4200	4720
WCDMA Band V	4183	Rel 99	4180	4680
	4183	HSDPA	4180	4700
	4183	HSUPA	4160	4720

GMSK 850 Cellular Band



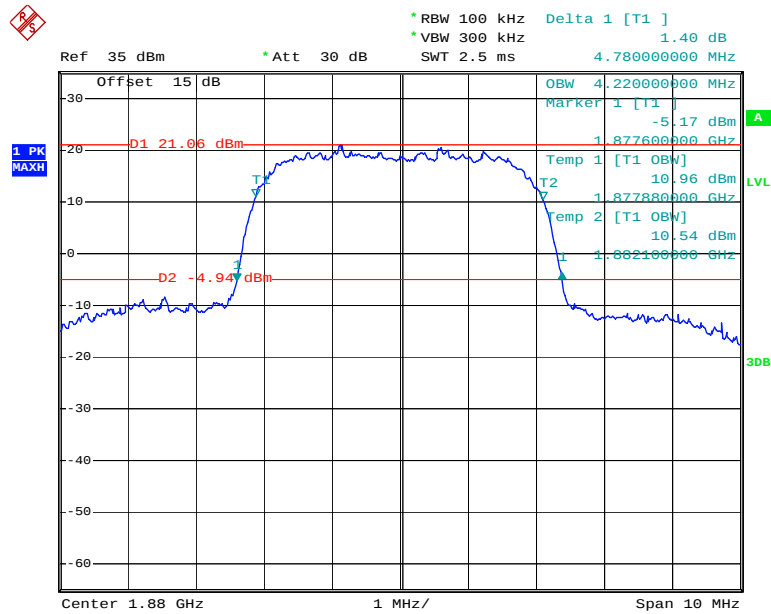
Date: 9.MAR.2015 18:09:21

GMSK PCS Band



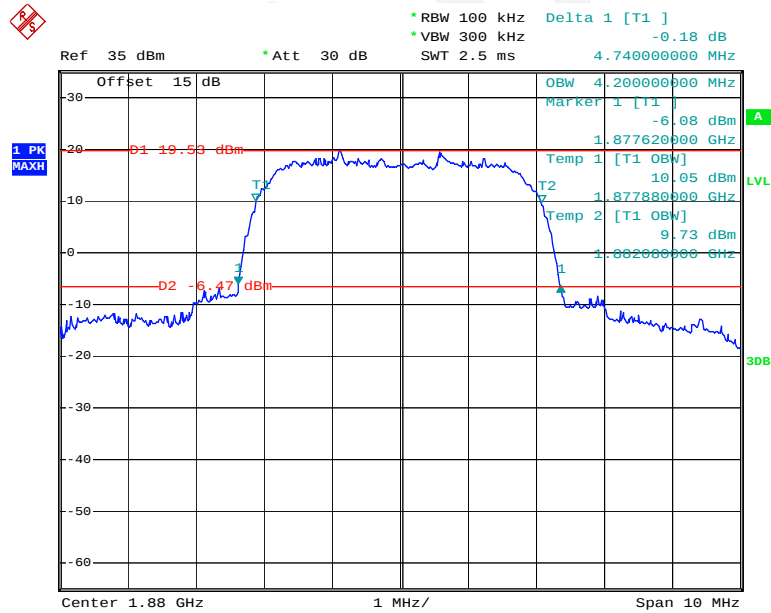
Date: 5.MAR.2015 17:37:22

REL99 Band II



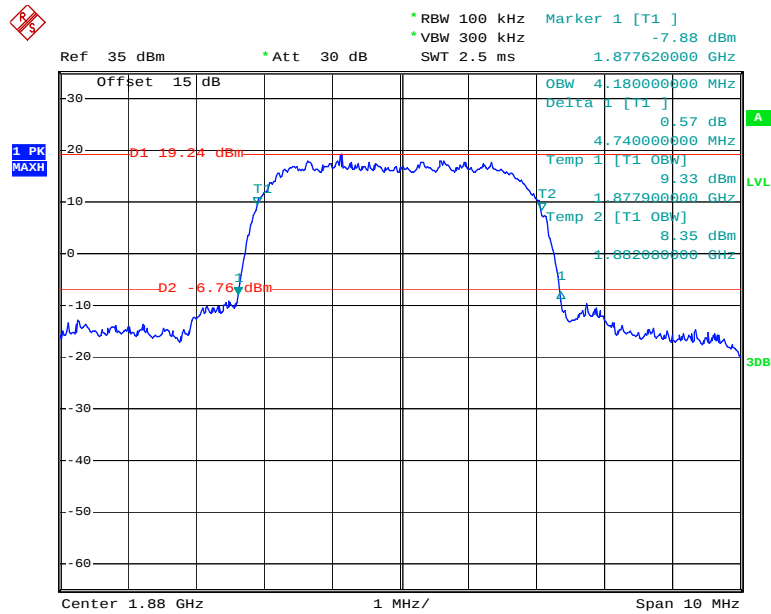
Date: 9.MAR.2015 14:56:47

HSDPA Band II



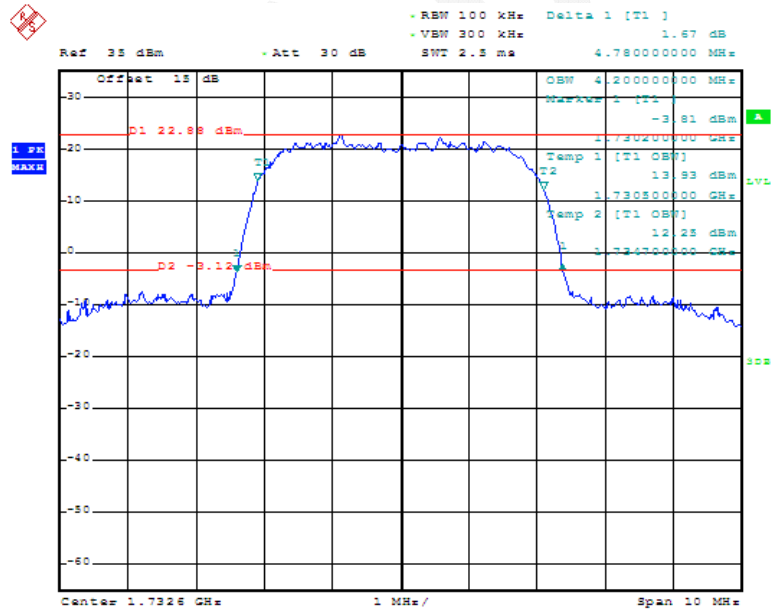
Date: 9.MAR.2015 15:33:18

HSUPA Band II



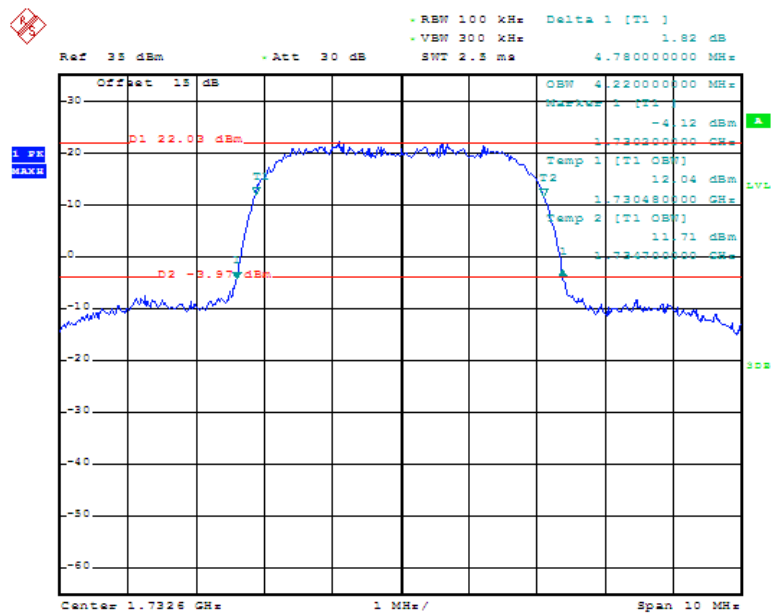
Date: 9.MAR.2015 13:04:29

REL99 Band IV



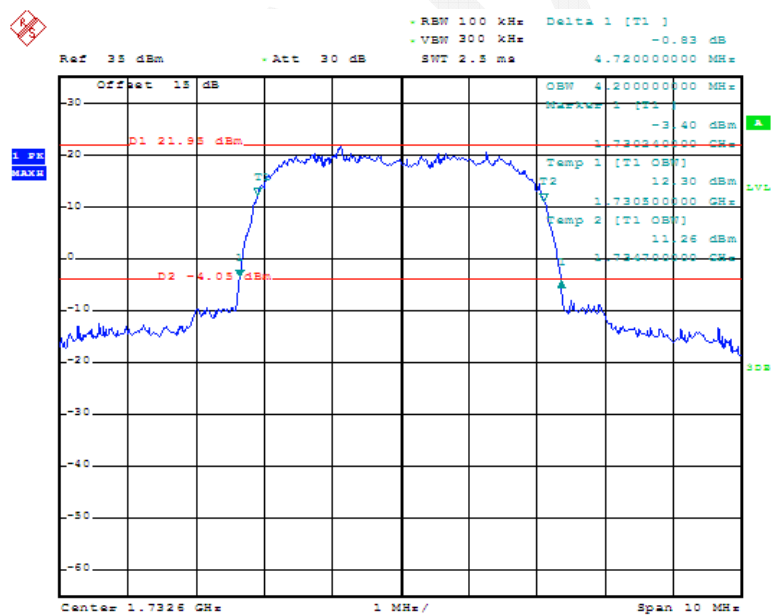
Date: 9.MAR.2015 17:25:34

HSDPA Band IV



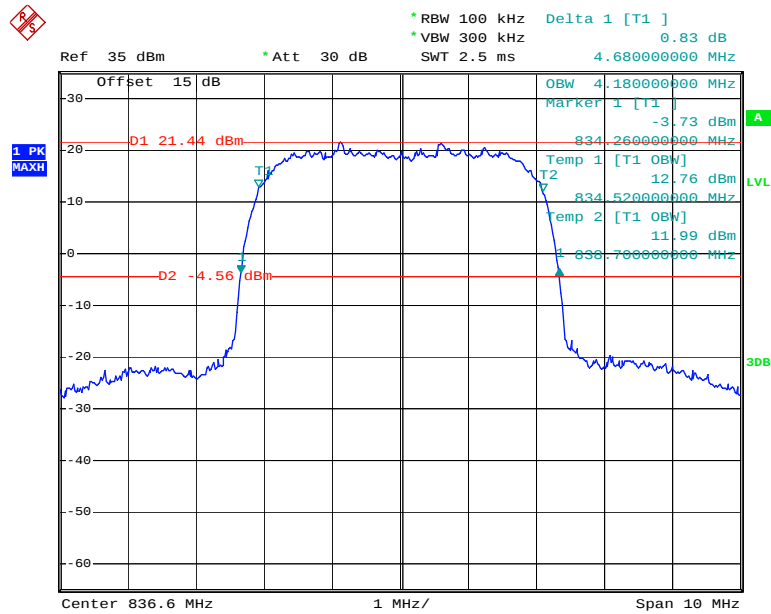
Date: 9.MAR.2015 17:29:35

HSUPA Band IV



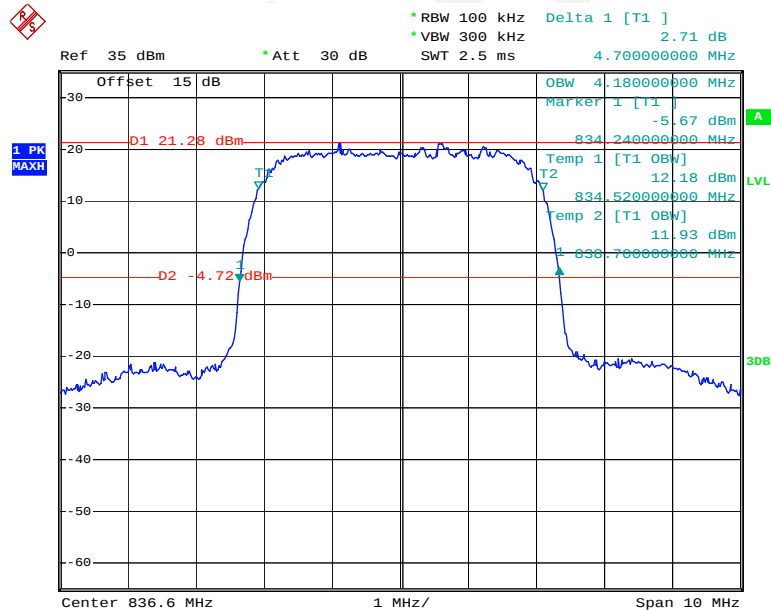
Date: 9.MAR.2015 17:27:33

REL99 Band V



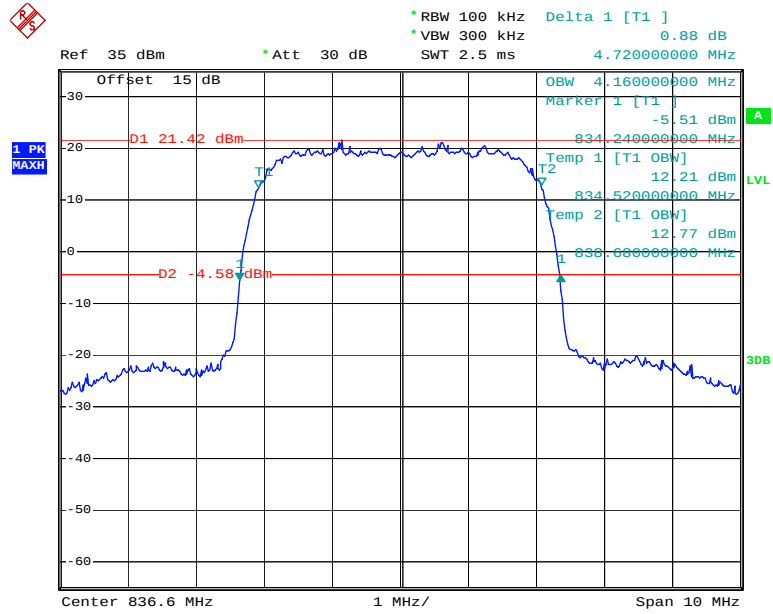
Date: 9.MAR.2015 16:15:14

HSDPA Band V



Date: 9.MAR.2015 16:17:44

HSUPA Band V



Date: 9.MAR.2015 16:19:50

FCC §2.1051, §22.917(a) & §24.238(a) & §27.53- SPURIOUS EMISSIONS AT ANTENNA TERMINALS

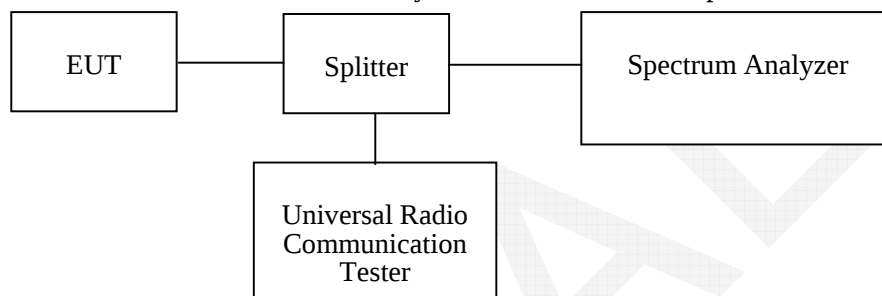
Applicable Standard

FCC §2.1051, §22.917(a) , §24.238(a) and §27.53.

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	2014-05-09	2015-05-09

* **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

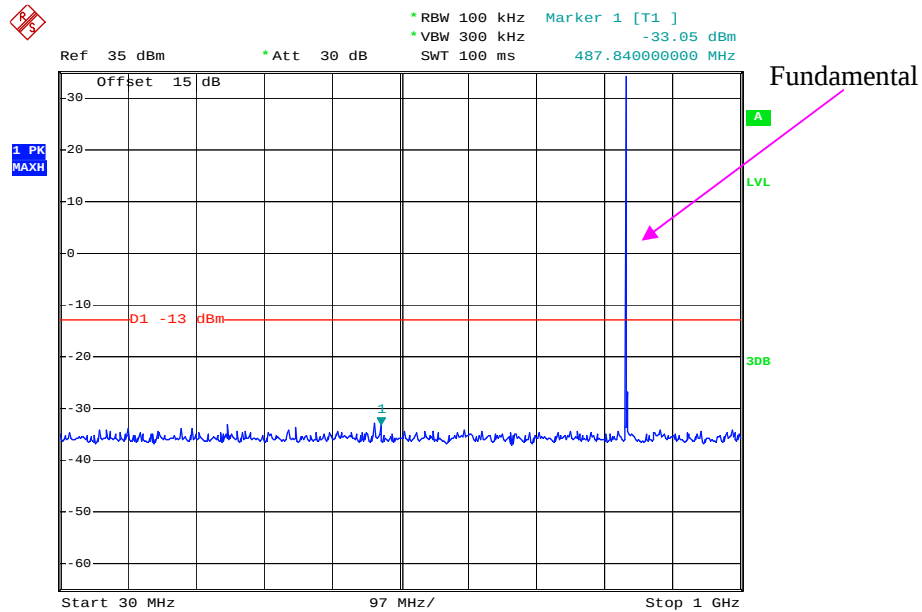
Environmental Conditions

Temperature:	22.6 °C
Relative Humidity:	70 %
ATM Pressure:	101.3 kPa

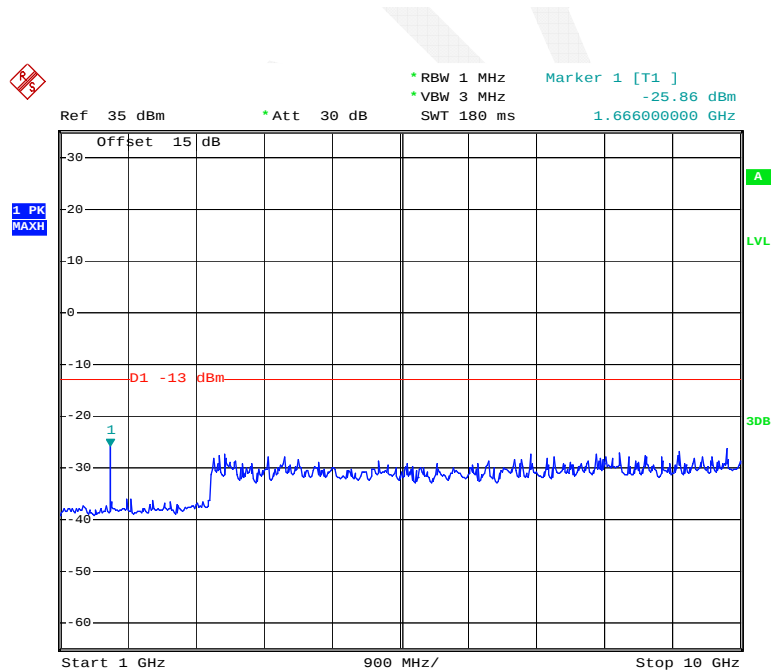
The testing was performed by Dean Liu from 2015-03-09.

Please refer to the following plots.

GSM850_Low Channel

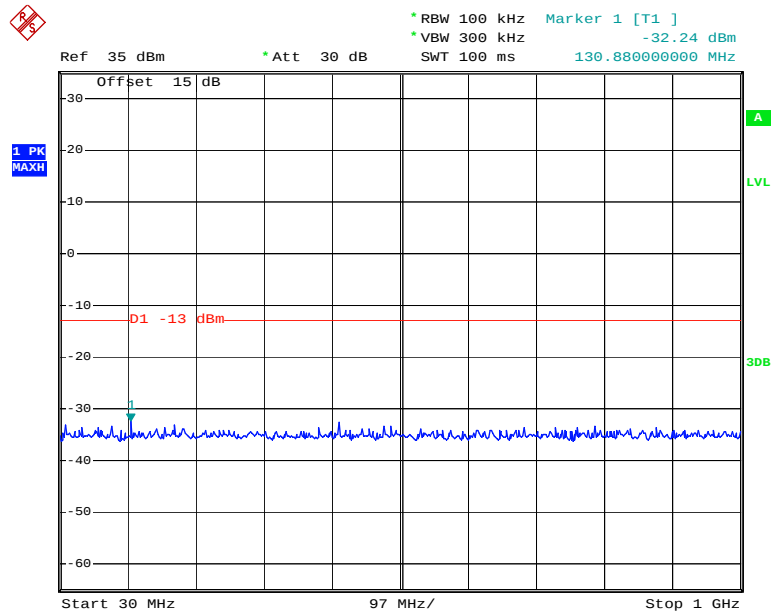


Date: 9.MAR.2015 12:27:33

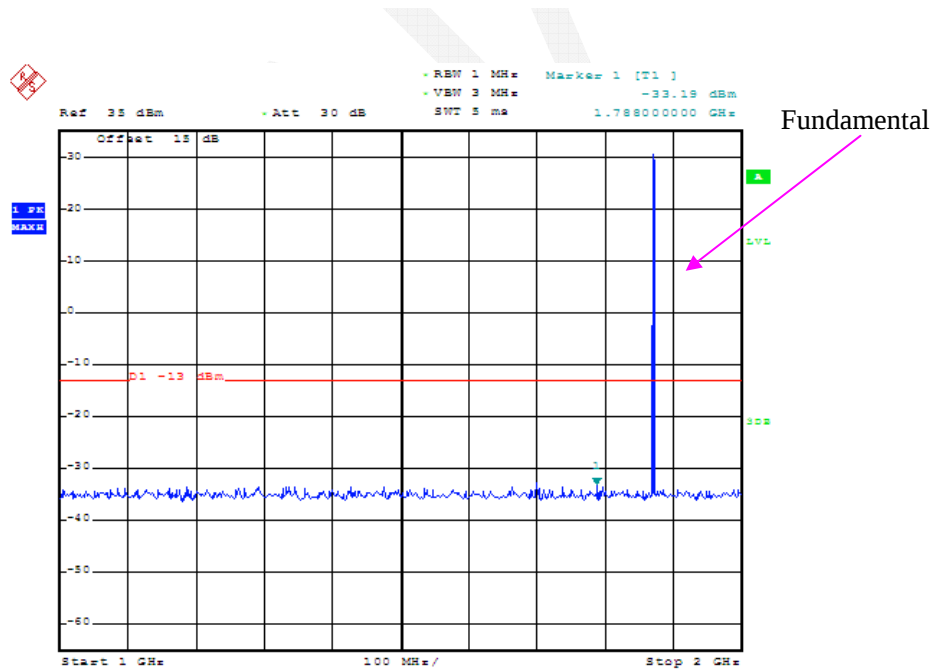


Date: 9.MAR.2015 12:24:48

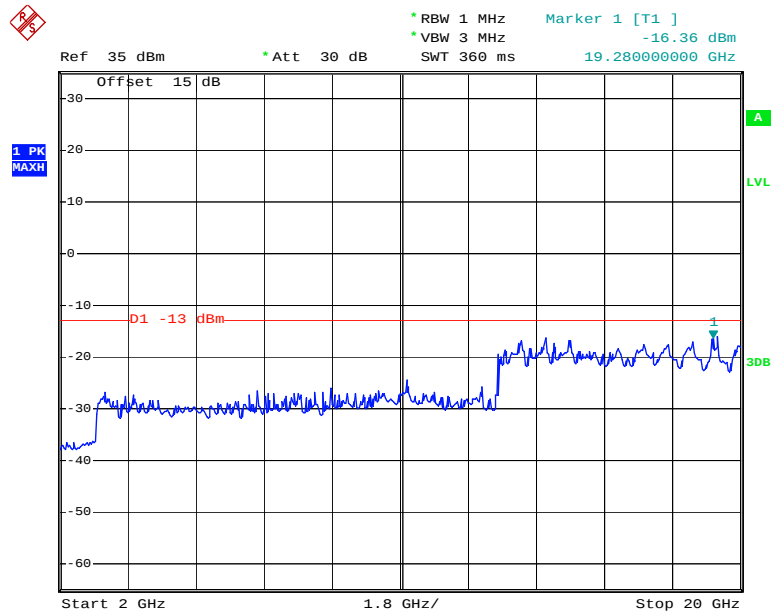
PCS 1900_Low Channel



Date: 9.MAR.2015 12:18:50

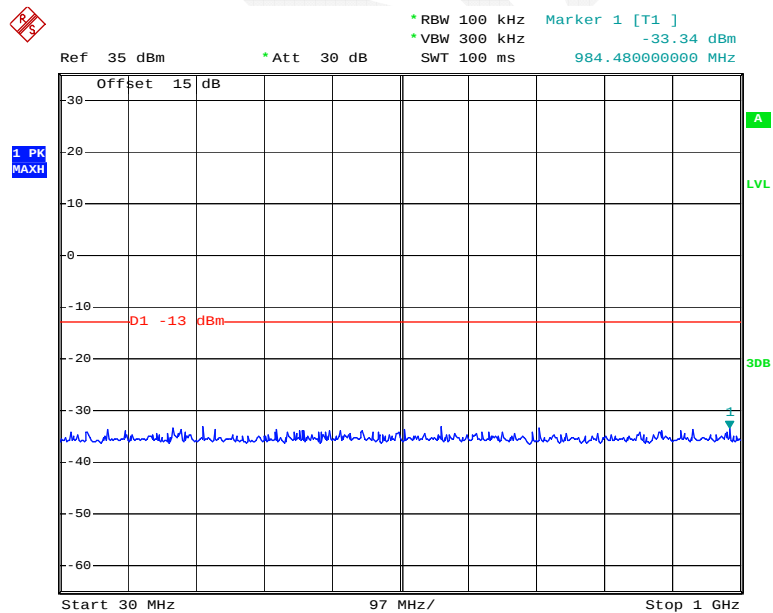


Date: 9.MAR.2015 12:16:17

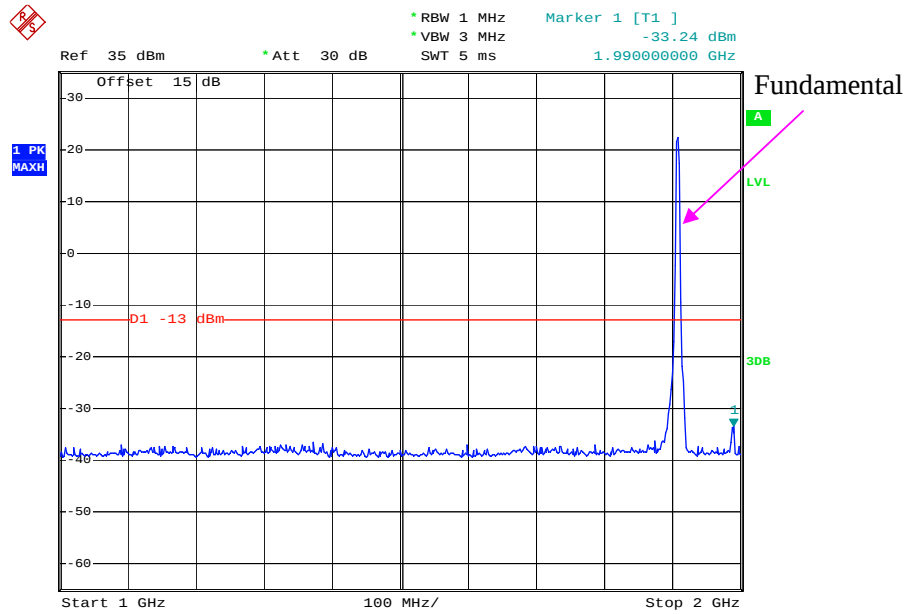


Date: 9.MAR.2015 12:21:10

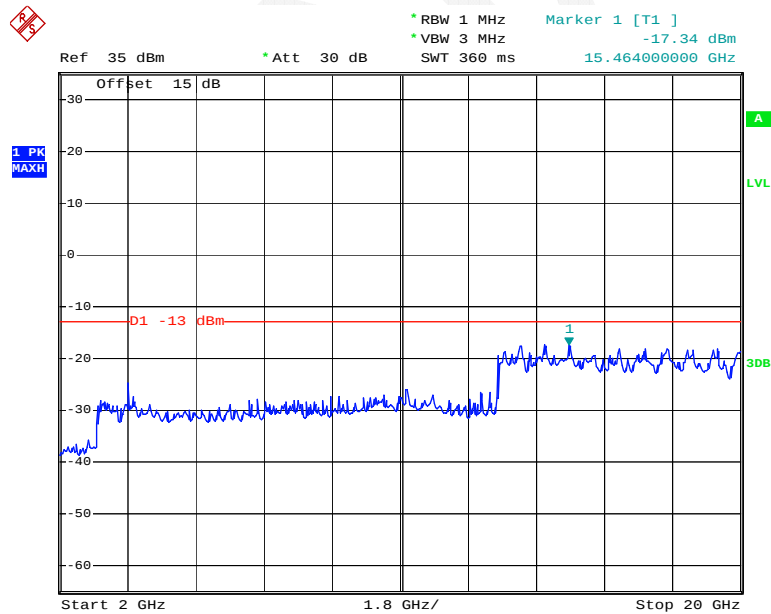
REL99 Band II_Middle Channel



Date: 9.MAR.2015 15:11:57

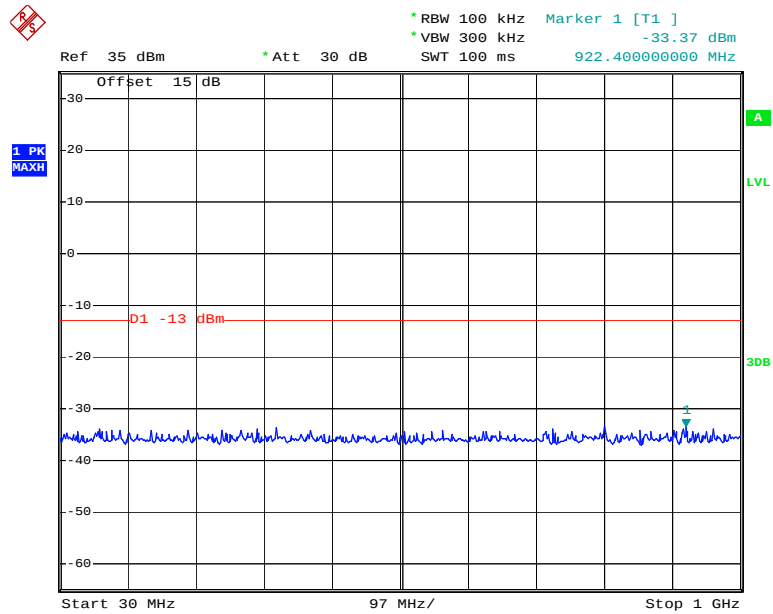


Date: 9.MAR.2015 15:13:31

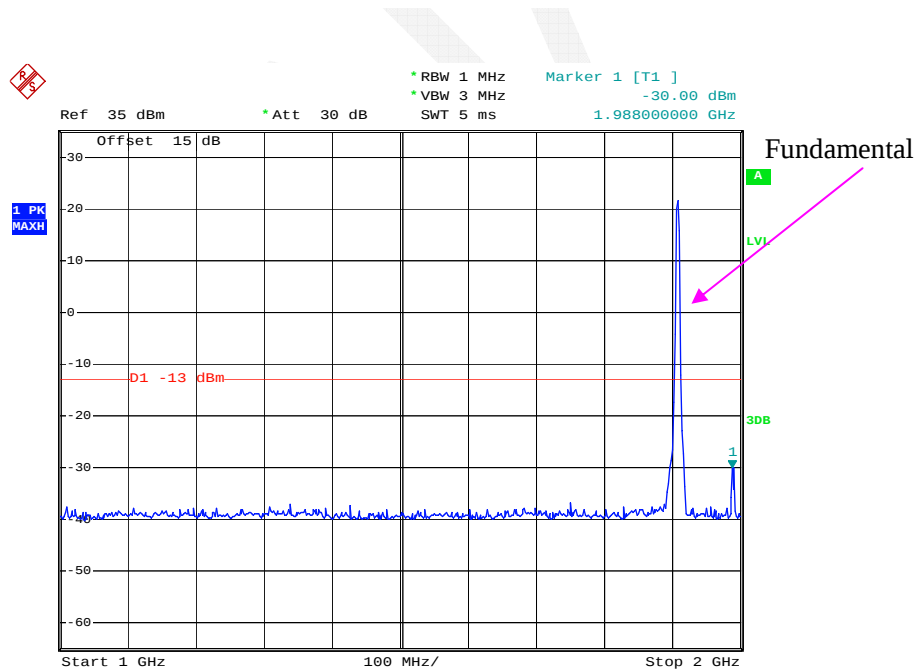


Date: 9.MAR.2015 15:14:25

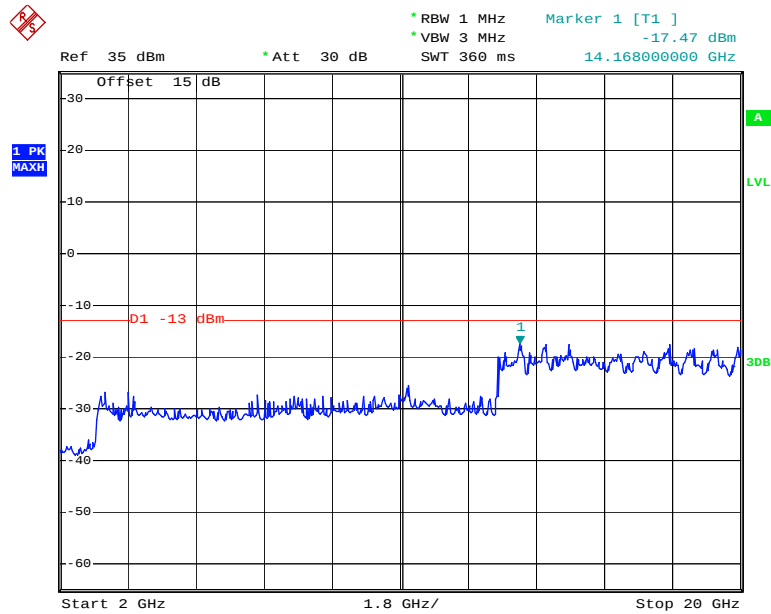
HSDPA Band II _Middle Channel



Date: 9.MAR.2015 15:22:57

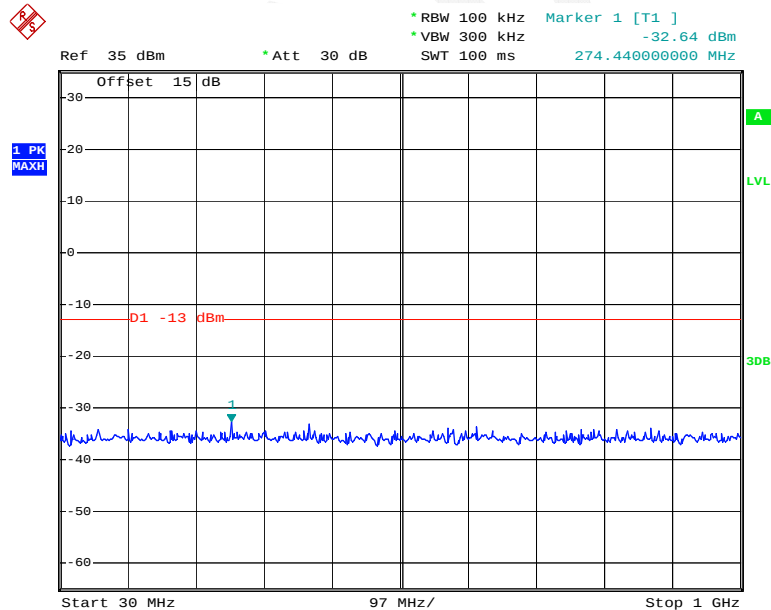


Date: 9.MAR.2015 15:21:00

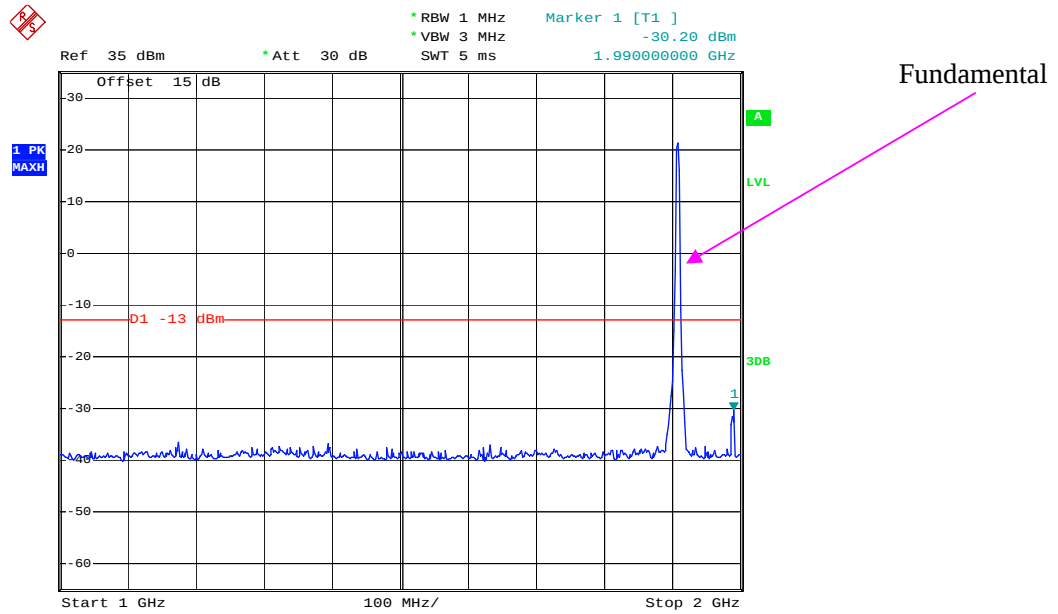


Date: 9.MAR.2015 15:20:27

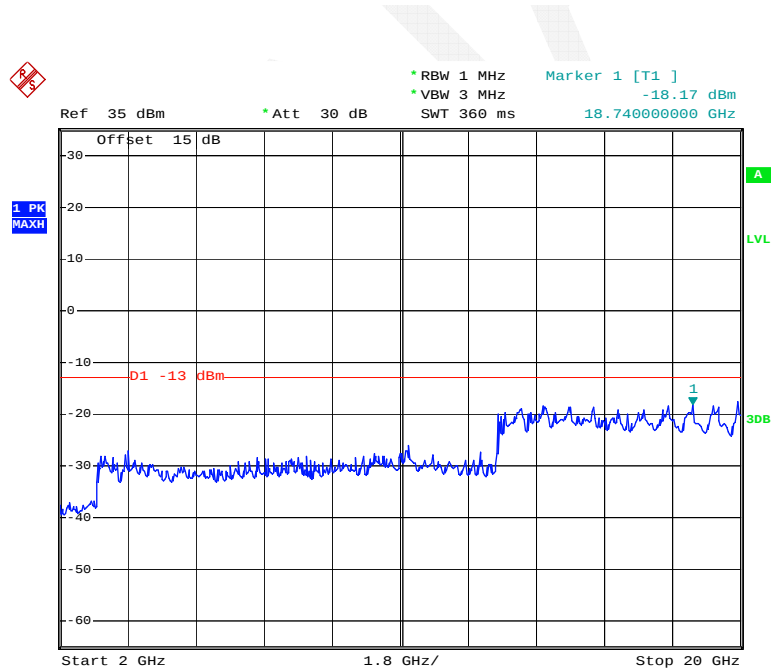
HSUPA Band II_High Channel



Date: 9.MAR.2015 15:23:12

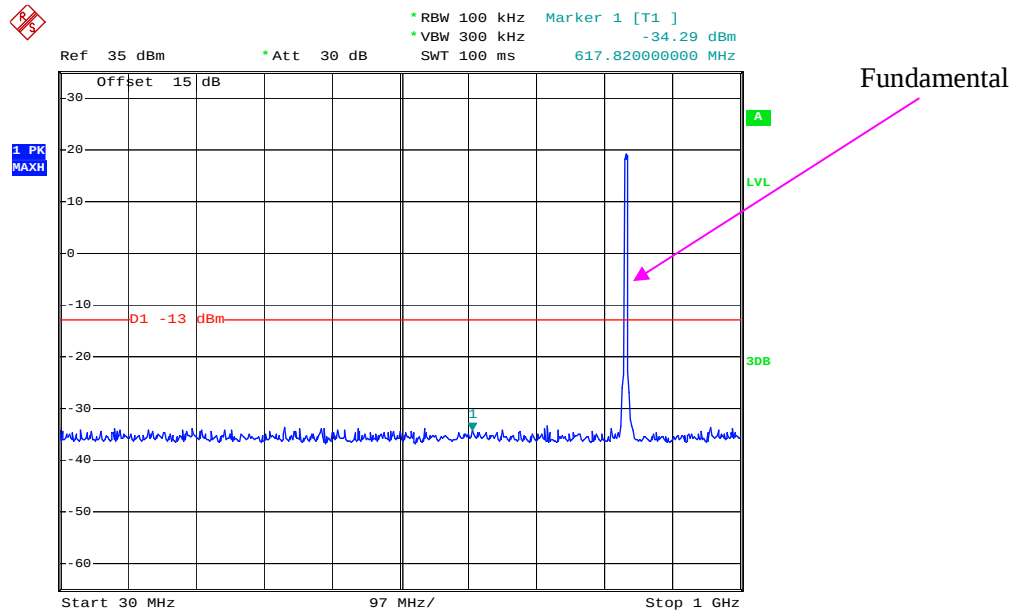


Date: 9.MAR.2015 15:24:25

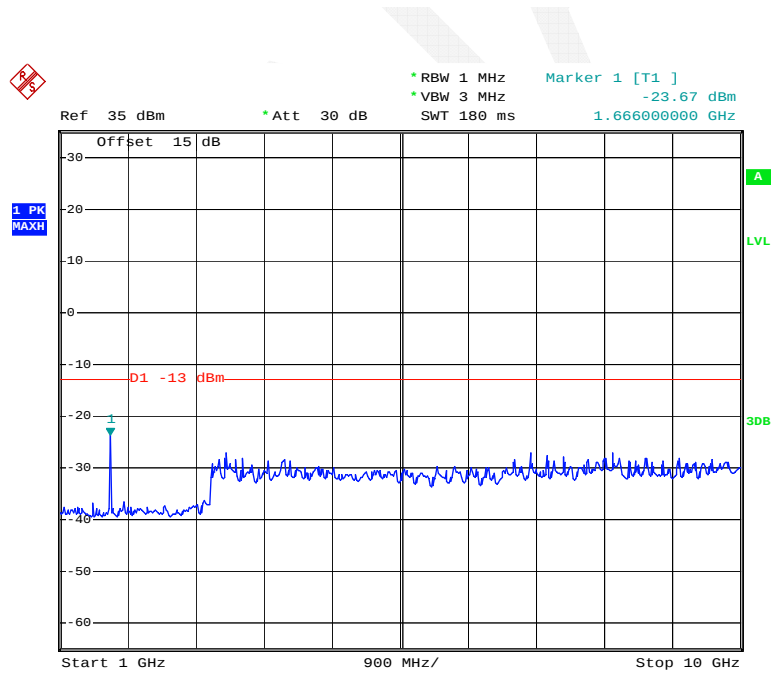


Date: 9.MAR.2015 15:24:54

REL99 Band V_ Low Channel

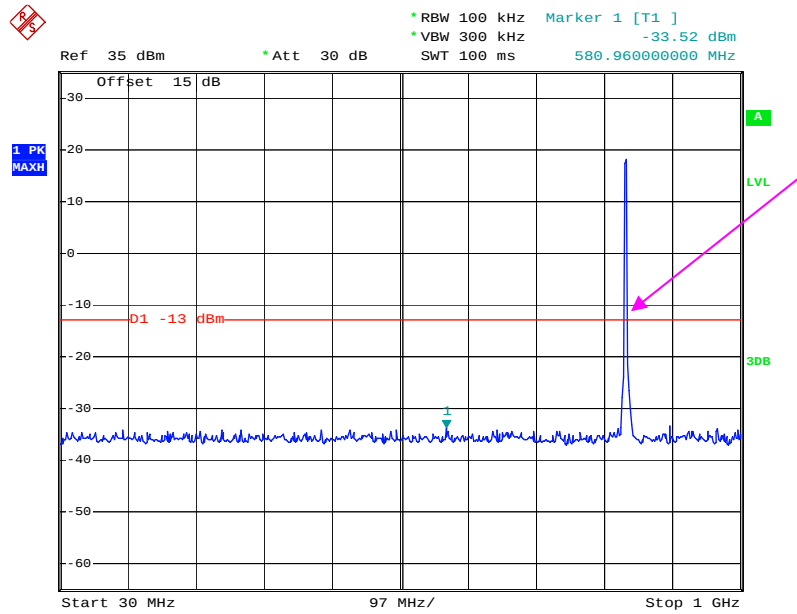


Date: 9.MAR.2015 16:23:25

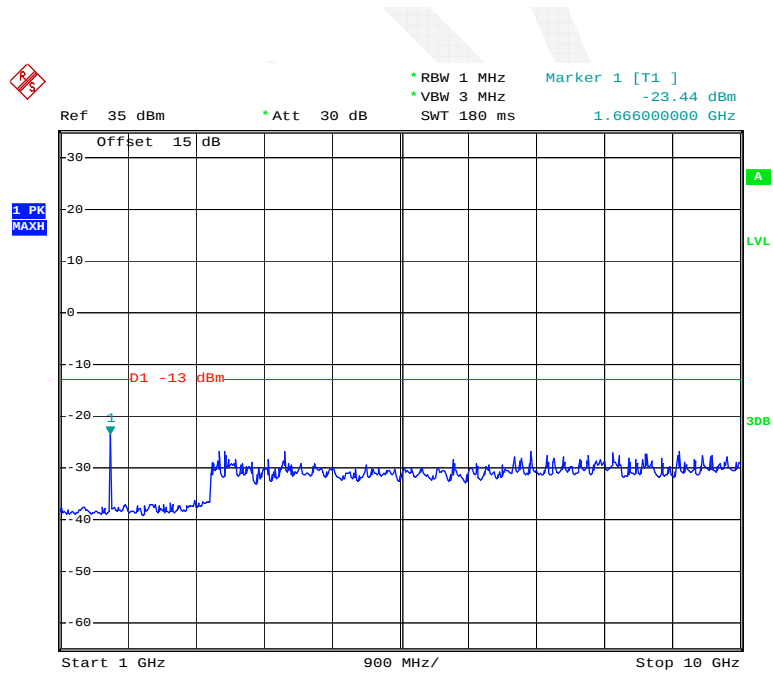


Date: 9.MAR.2015 16:24:35

HSDPA Band V_Low Channel

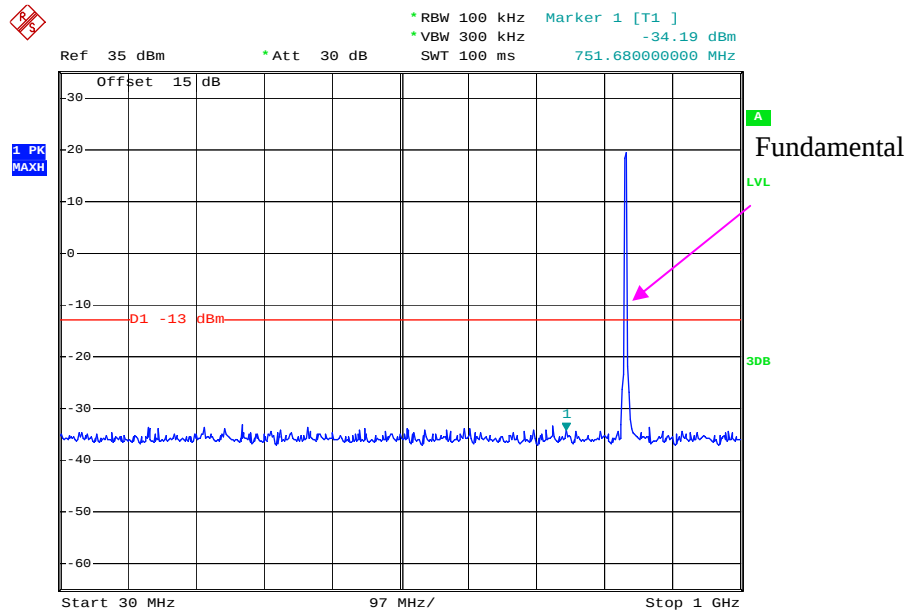


Date: 9.MAR.2015 16:23:42

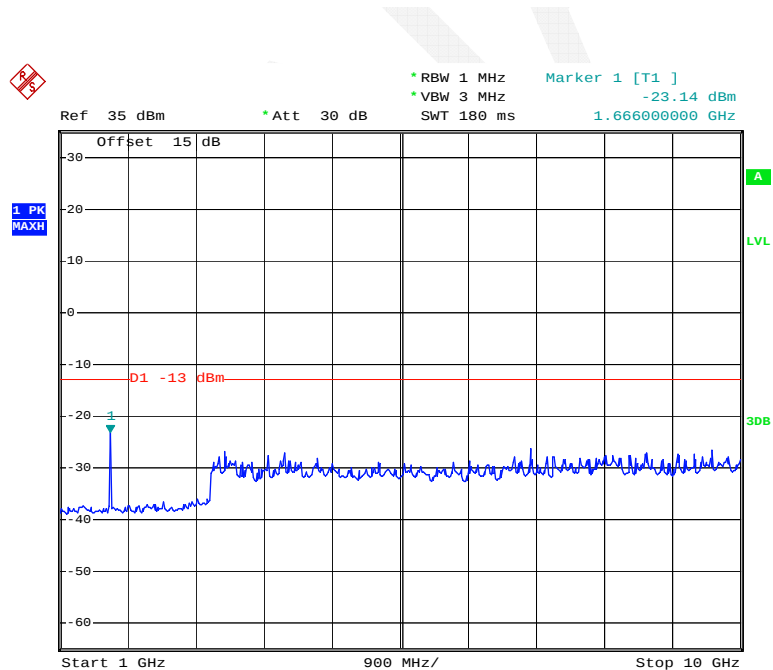


Date: 9.MAR.2015 16:26:20

HSUPA Band V_Low Channel

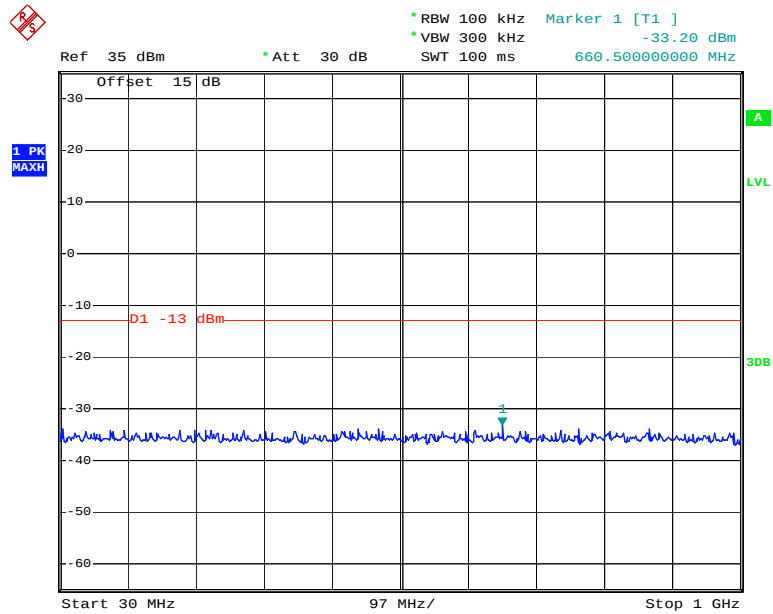


Date: 9.MAR.2015 16:23:59

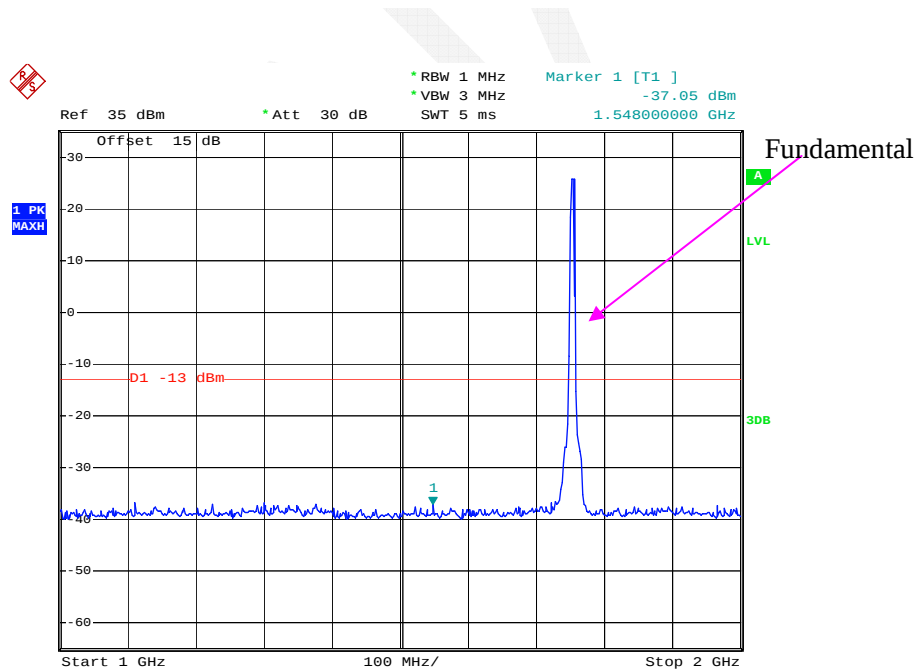


Date: 9.MAR.2015 16:25:39

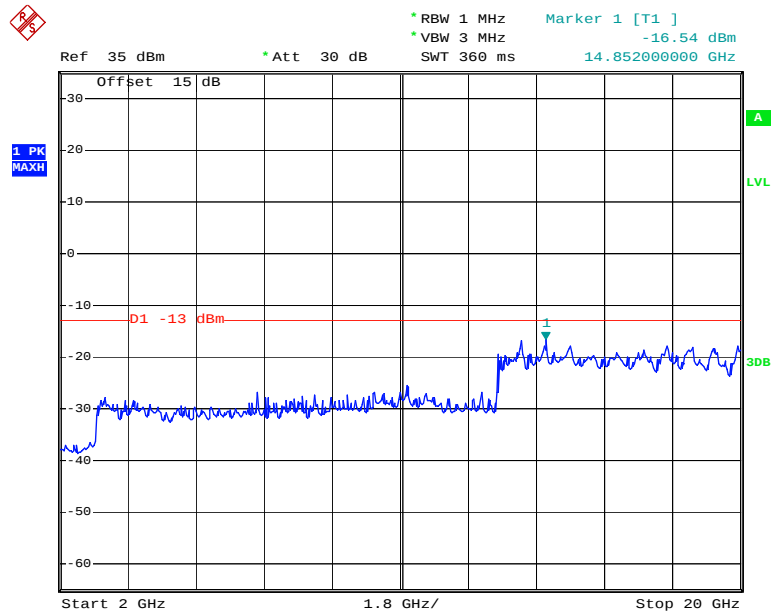
REL99 Band IV_ Low Channel



Date: 9.MAR.2015 17:09:41

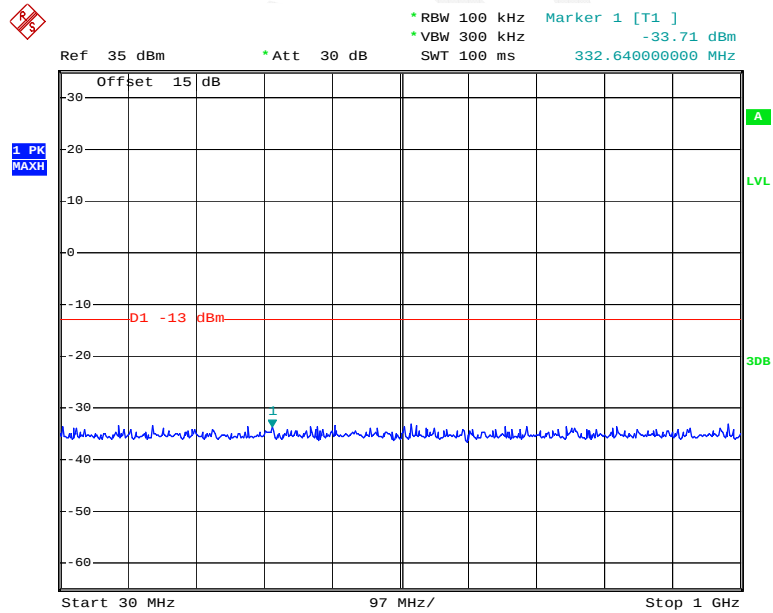


Date: 9.MAR.2015 17:07:08

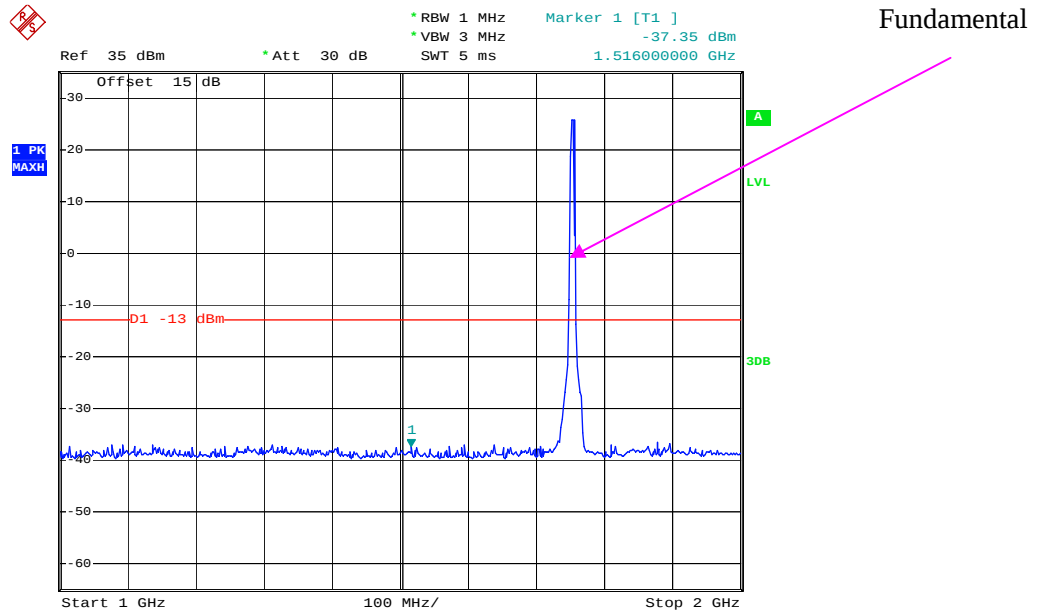


Date: 9.MAR.2015 16:50:45

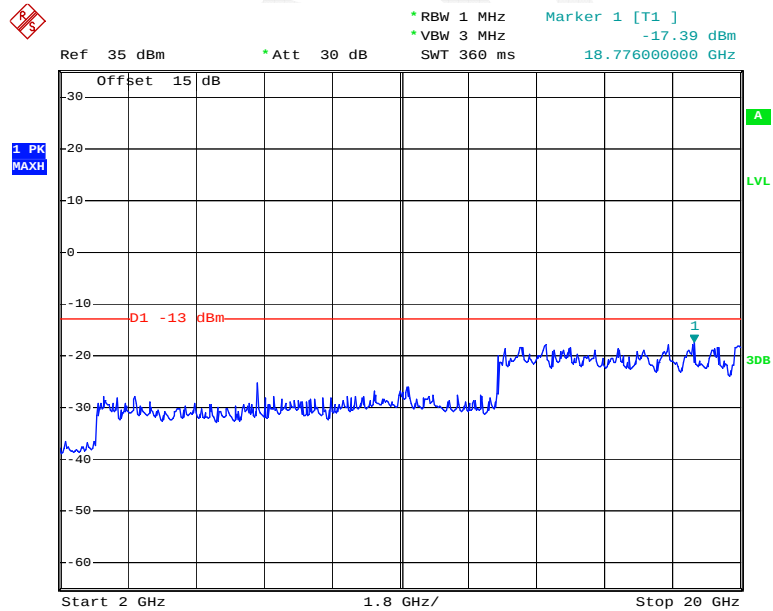
HSDPA Band IV_Middle Channel



Date: 9.MAR.2015 17:10:23

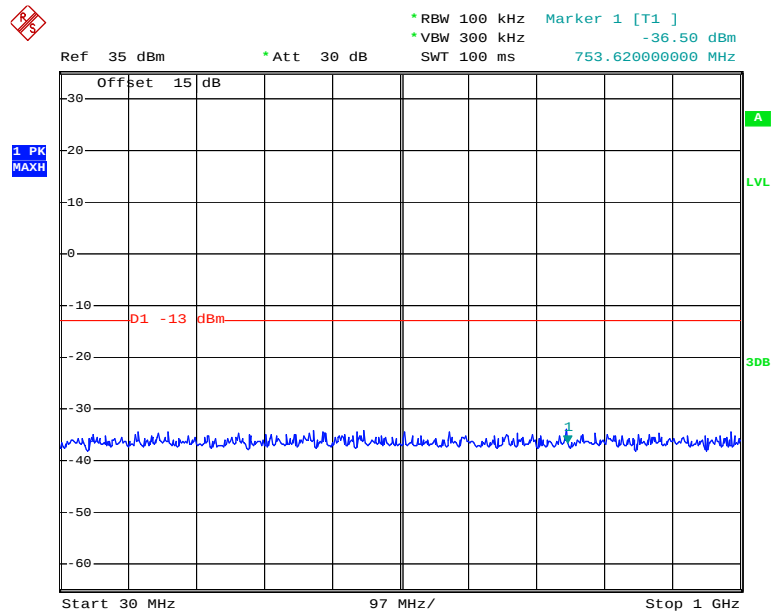


Date: 9.MAR.2015 17:08:55

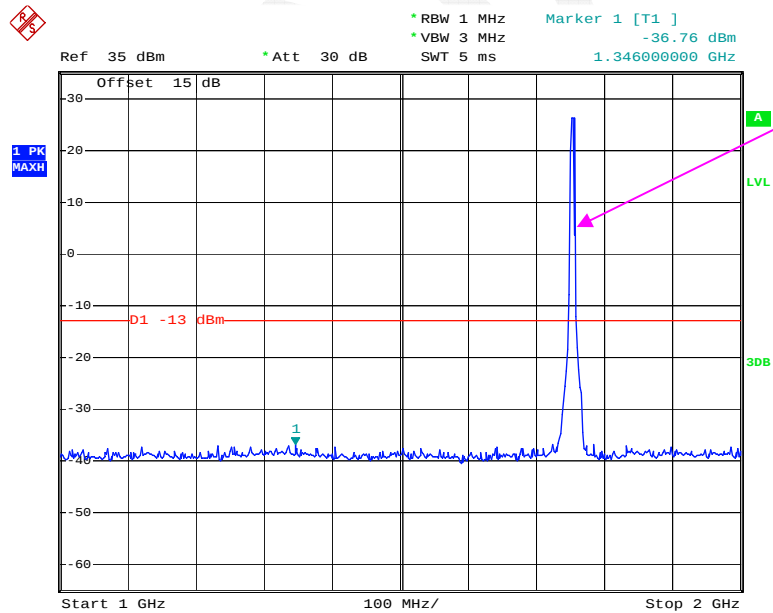


Date: 9.MAR.2015 17:08:03

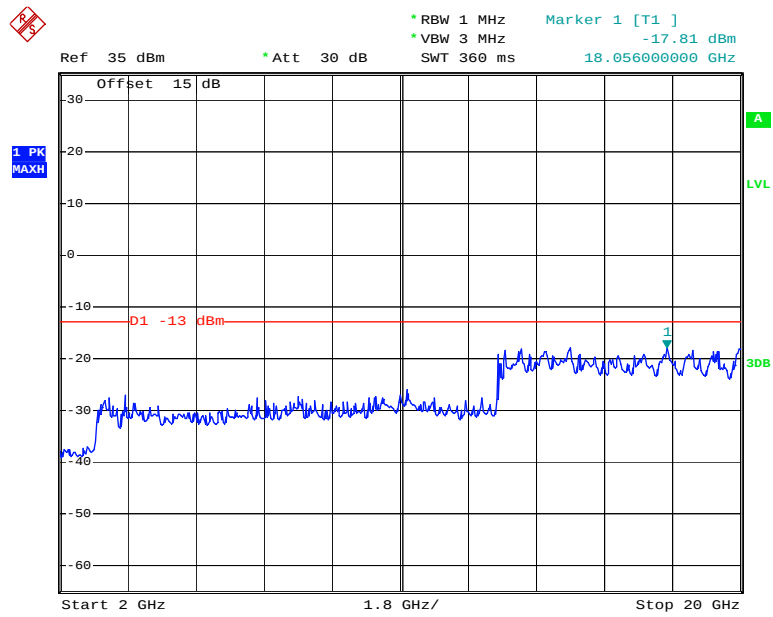
HSUPA Band IV_ Middle Channel



Date: 9.MAR.2015 17:13:03



Date: 9.MAR.2015 17:14:02



Date: 9.MAR.2015 17:14:35

FCC §2.1053, §22.917 & §24.238 & §27.53- SPURIOUS RADIATED EMISSIONS

Applicable Standard

FCC § 2.1053, §22.917, § 24.238 and § 27.53.

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 = $10 \lg(\text{TXpwr in Watts}/0.001)$ – the absolute level

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

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2014-05-09	2015-05-09
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	2014-05-09	2015-05-09
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	2014-05-09	2015-05-09
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).

Test Data**Environmental Conditions**

Temperature:	22.6 °C
Relative Humidity:	70 %
ATM Pressure:	101.3kPa

The testing was performed by Dean Liu from 2015-03-09.

EUT Operation Mode: Transmitting

Cellular Band

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency:824.200 MHz								
1648.400	H	57.21	-43.9	10.5	1.5	-34.9	-13.0	21.9
1648.400	V	56.57	-45	10.5	1.5	-36.0	-13.0	23.0
2472.600	H	50.94	-47.1	12.9	2.6	-36.8	-13.0	23.8
2472.600	V	48.31	-48.4	12.9	2.6	-38.1	-13.0	25.1
Frequency:836.600 MHz								
1673.200	H	58.67	-42.4	10.6	1.5	-33.3	-13.0	20.3
1673.200	V	57.14	-44.2	10.6	1.5	-35.1	-13.0	22.1
2509.800	H	48.69	-49.3	13.1	2.8	-39.0	-13.0	26.0
2509.800	V	47.67	-49.4	13.1	2.8	-39.1	-13.0	26.1
Frequency:848.800 MHz								
1697.600	H	59.58	-41.5	10.8	1.5	-32.2	-13.0	19.2
1697.600	V	57.29	-43.9	10.8	1.5	-34.6	-13.0	21.6
2546.400	H	47.25	-49.3	13.1	2.8	-39.0	-13.0	26.0
2546.400	V	46.57	-50.5	13.1	2.8	-40.2	-13.0	27.2

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

PCS Band

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency:1850.200 MHz								
3700.400	H	40.37	-54.4	14.0	2.5	-42.9	-13.0	29.9
3700.400	V	43.56	-50.8	14.0	2.5	-39.3	-13.0	26.3
Frequency:1880.000 MHz								
3760.000	H	42.65	-51.6	13.8	2.9	-40.7	-13.0	27.7
3760.000	V	45.78	-47.3	13.8	2.9	-36.4	-13.0	23.4
Frequency:1909.800 MHz								
3819.600	H	44.53	-49.3	13.6	3.3	-39.0	-13.0	26.0
3819.600	V	47.71	-44.4	13.6	3.3	-34.1	-13.0	21.1

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

WCDMA Band II

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency:1852.400 MHz								
3704.800	H	53.96	-40.8	13.9	2.5	-29.4	-13.0	16.4
3704.800	V	52.48	-41.8	13.9	2.5	-30.4	-13.0	17.4
Frequency:1880.000 MHz								
3760.000	H	52.02	-42.3	13.8	2.9	-31.4	-13.0	18.4
3760.000	V	51.59	-41.5	13.8	2.9	-30.6	-13.0	17.6
Frequency:1907.600 MHz								
3815.200	H	52.13	-41.7	13.6	3.3	-31.4	-13.0	18.4
3815.200	V	51.66	-40.5	13.6	3.3	-30.2	-13.0	17.2

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

WCDMA Band IV

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency:1712.400 MHz								
3424.800	H	49.08	-48.2	14.0	1.8	-36.0	-13.0	23.0
3424.800	V	49.95	-46.9	14.0	1.8	-34.7	-13.0	21.7
Frequency:1732.600 MHz								
3465.200	H	52.33	-44.6	13.9	1.9	-32.6	-13.0	19.6
3465.200	V	53.14	-43	13.9	1.9	-31.0	-13.0	18.0
Frequency:1752.600 MHz								
3505.200	H	48.70	-47.9	13.8	1.9	-36.0	-13.0	23.0
3505.200	V	49.25	-46.3	13.8	1.9	-34.4	-13.0	21.4

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

WCDMA Band V

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency:824.400 MHz								
1652.800	H	58.14	-43.0	10.5	1.5	-34.0	-13.0	21.0
1652.800	V	57.23	-44.3	10.5	1.5	-35.3	-13.0	22.3
Frequency:836.600 MHz								
1673.200	H	57.23	-43.8	10.6	1.5	-34.7	-13.0	21.7
1673.200	V	56.67	-44.7	10.6	1.5	-35.6	-13.0	22.6
Frequency:848.600 MHz								
1693.200	H	55.87	-45.2	10.7	1.5	-36.0	-13.0	23.0
1693.200	V	54.06	-47.2	10.7	1.5	-38.0	-13.0	25.0

Note:

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

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

FCC §22.917(a) & §24.238(a) & §27.53(h)- 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.

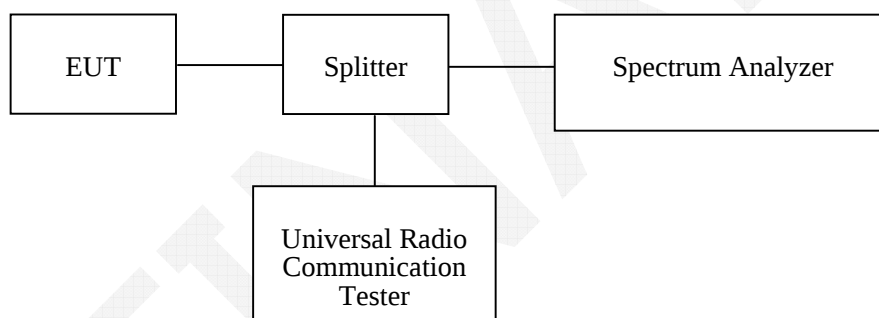
According to §24.238(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to §27.53 (h), AWS emission limits—(1) General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ 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	2014-05-09	2015-05-09

* **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:	22.1~22.6°C
Relative Humidity:	64~70 %
ATM Pressure:	101.1~101.3 kPa

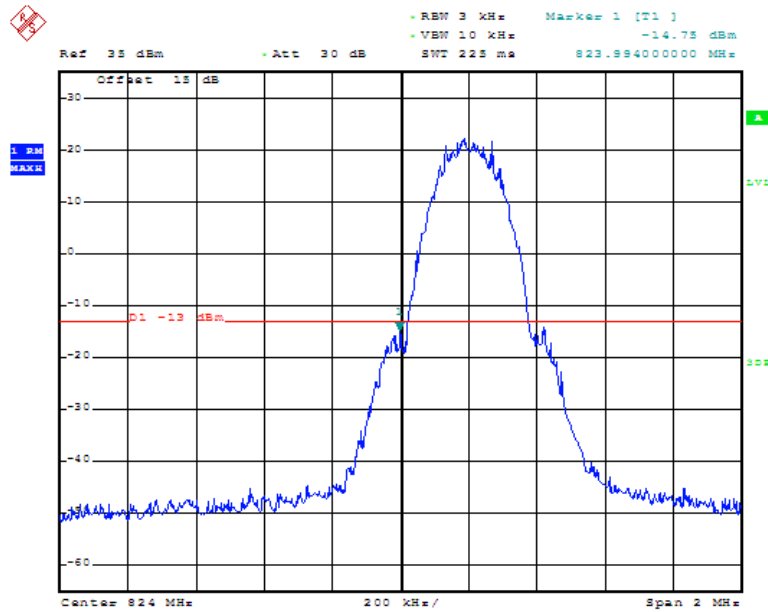
The testing was performed by Dean Liu from 2015-03-05 and 2015-03-09.

Test Mode: Transmitting

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

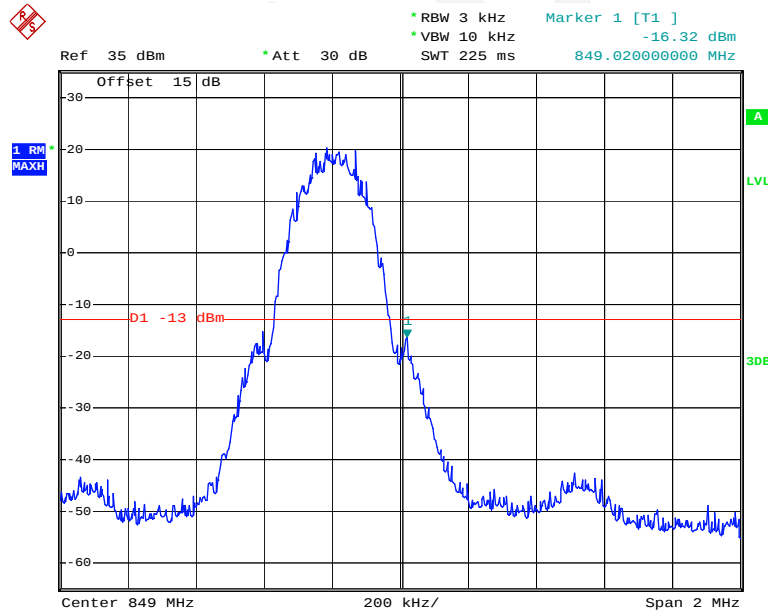
Band	Mode	Band Edge	Reading	Limit
			dBm	dBm
Cellular	GSM	Left	-14.75	≤ -13
		Right	-16.32	≤ -13
PCS	GSM	Left	-21.52	≤ -13
		Right	-27.89	≤ -13
WCDMA Band II	Rel 99	Left	-13.49	≤ -13
		Right	-17.20	≤ -13
	HSDPA	Left	-14.12	≤ -13
		Right	-19.90	≤ -13
	HSUPA	Left	-15.79	≤ -13
		Right	-19.38	≤ -13
WCDMA Band IV	Rel 99	Left	-15.17	≤ -13
		Right	-13.67	≤ -13
	HSDPA	Left	-16.43	≤ -13
		Right	-14.89	≤ -13
	HSUPA	Left	-16.28	≤ -13
		Right	-16.47	≤ -13
WCDMA Band V	Rel 99	Left	-13.51	≤ -13
		Right	-15.83	≤ -13
	HSDPA	Left	-14.24	≤ -13
		Right	-16.77	≤ -13
	HSUPA	Left	-13.89	≤ -13
		Right	-16.59	≤ -13

GSM 850, Left Band Edge



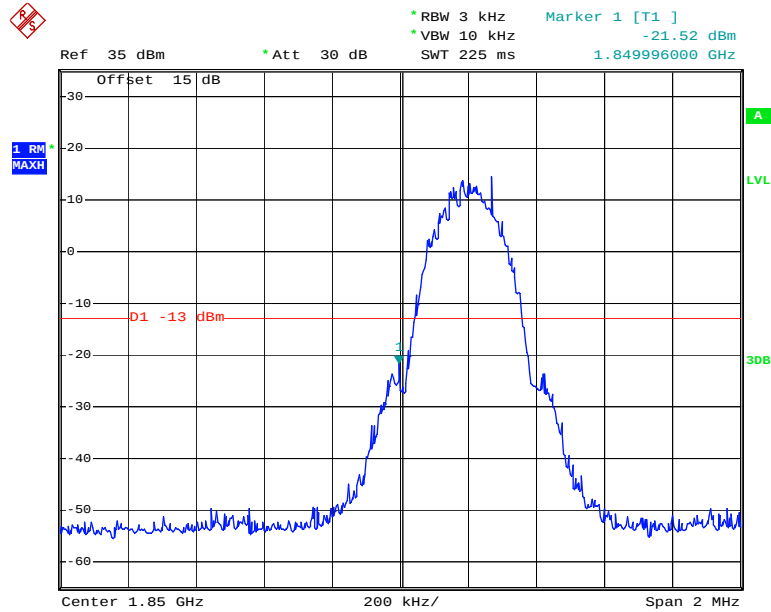
Date: 9.MAR.2015 11:22:20

GSM 850, Right Band Edge



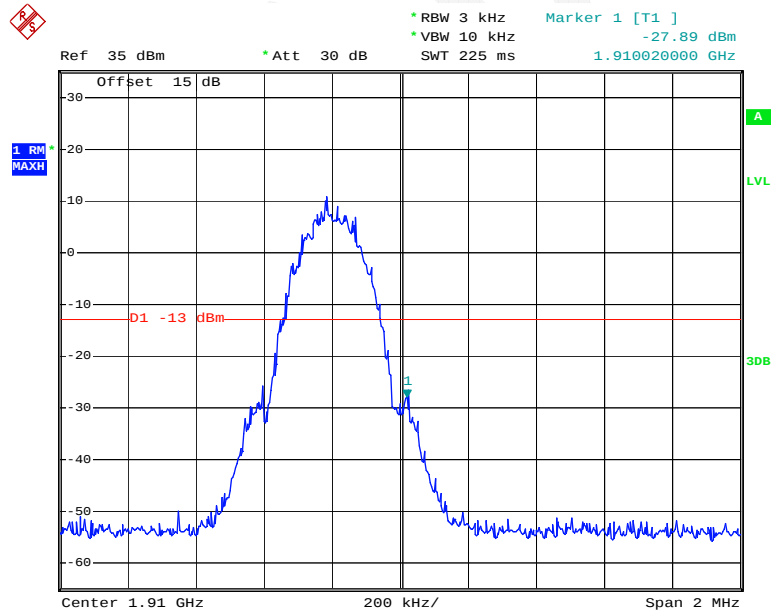
Date: 5.MAR.2015 18:23:00

GSM 1900, Left Band Edge



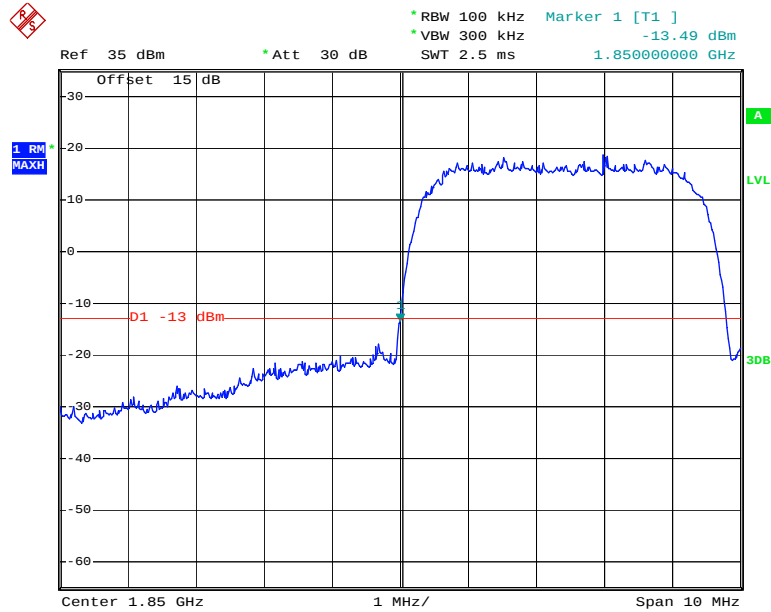
Date: 5.MAR.2015 18:30:25

GSM 1900, Right Band Edge



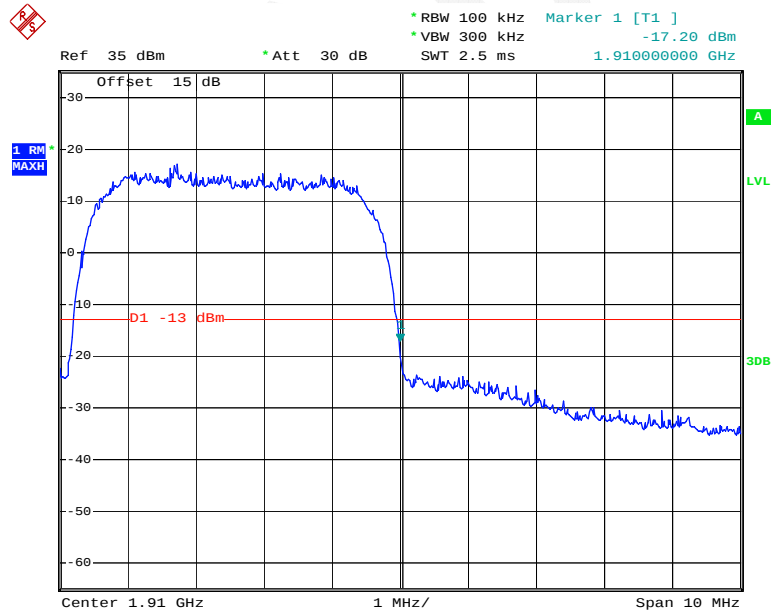
Date: 5.MAR.2015 18:32:13

REL99 Band II, Left Band Edge



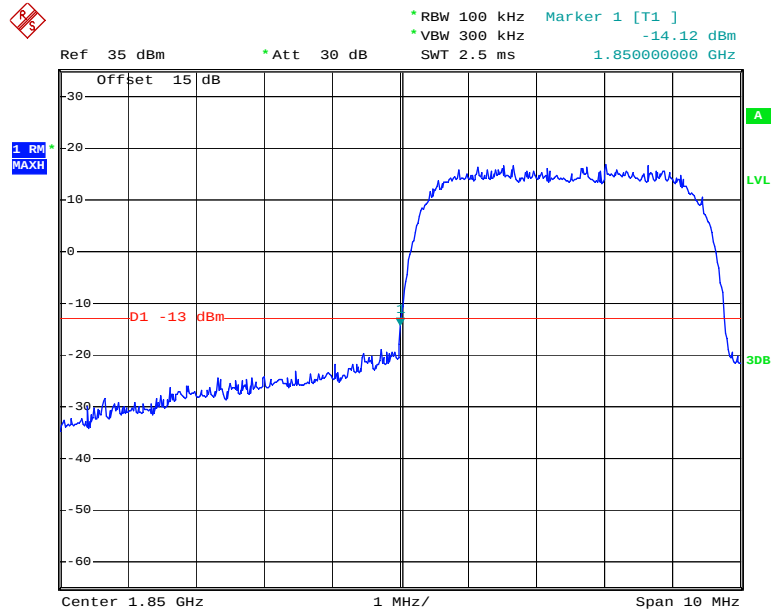
Date: 9.MAR.2015 15:03:40

REL99 Band II, Right Band Edge



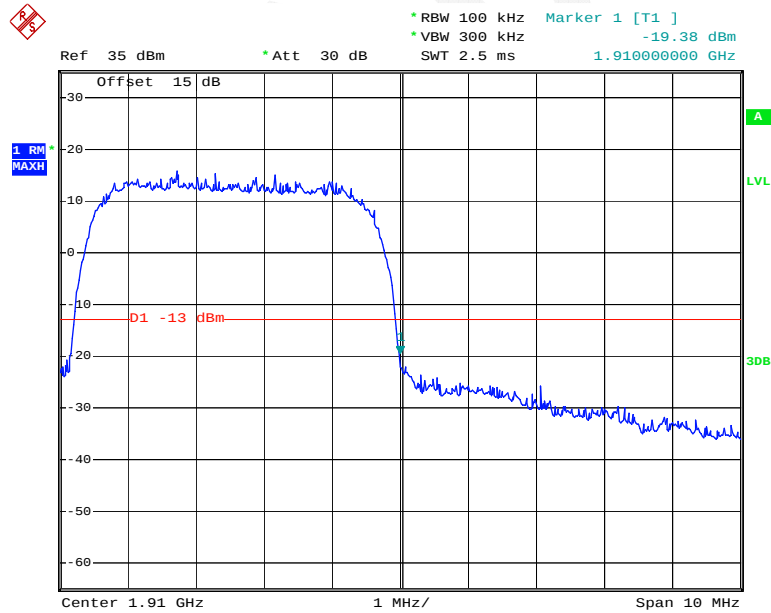
Date: 9.MAR.2015 15:06:45

HSDPA Band II, Left Band Edge



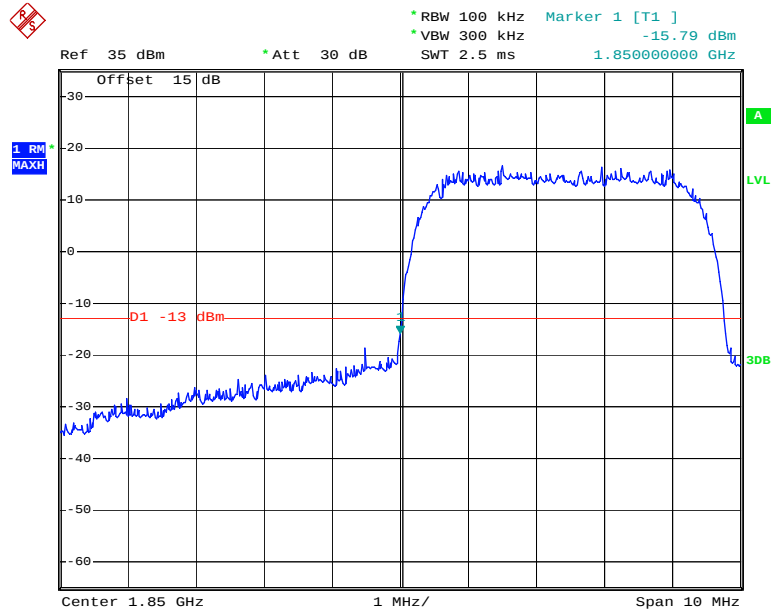
Date: 9.MAR.2015 15:38:04

HSDPA Band II, Right Band Edge



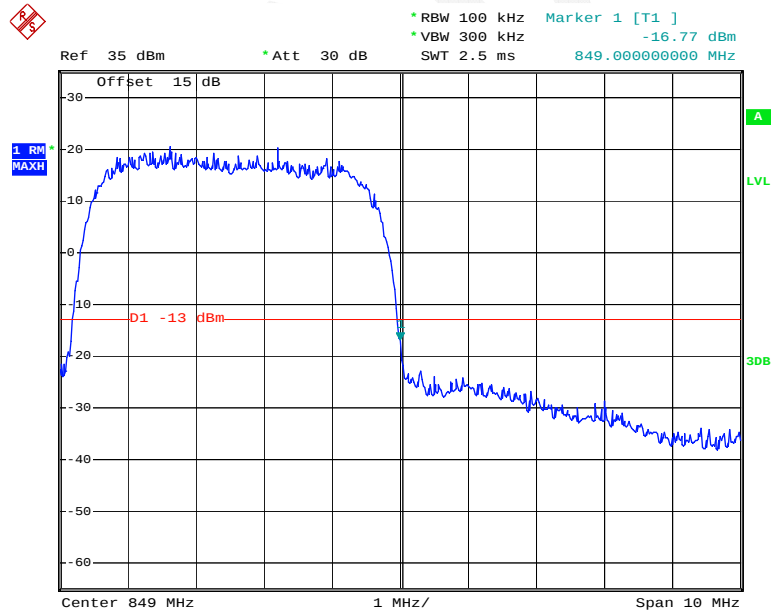
Date: 9.MAR.2015 15:40:17

HSUPA Band II, Left Band Edge



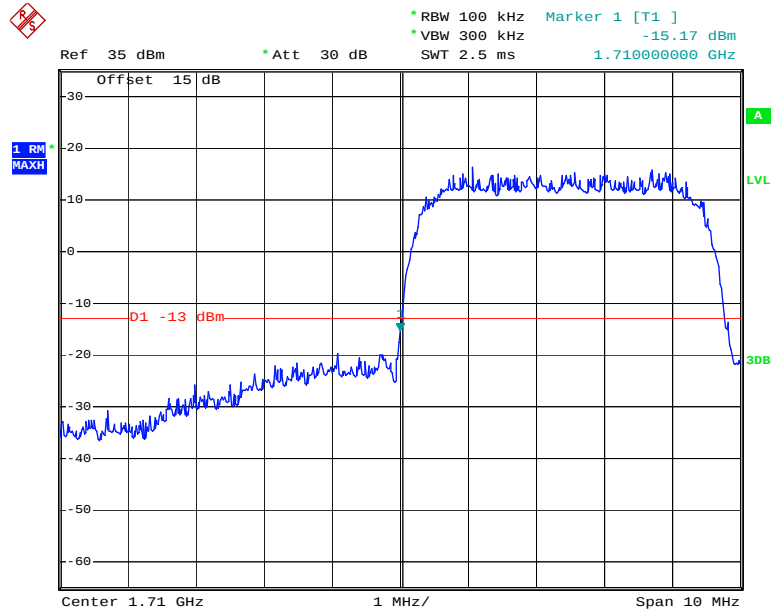
Date: 9.MAR.2015 15:38:19

HSUPA Band II, Right Band Edge



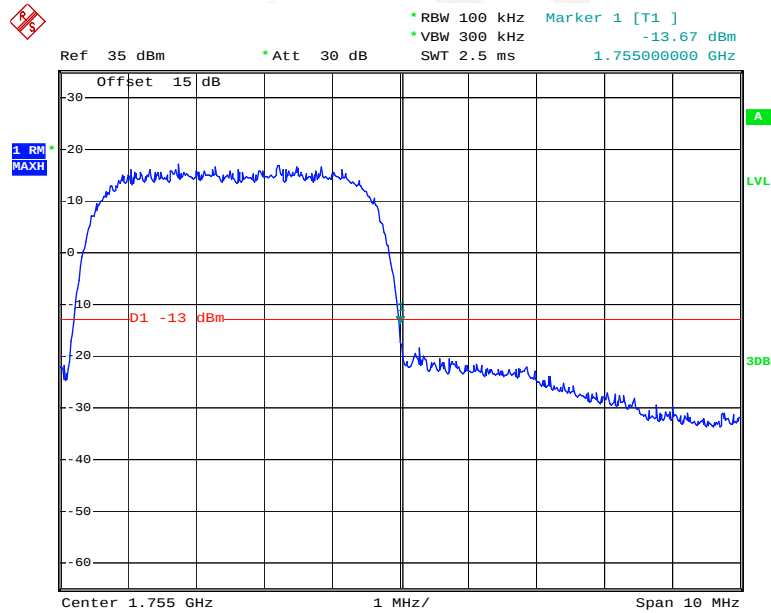
Date: 9.MAR.2015 15:59:09

REL99 Band IV, Left Band Edge



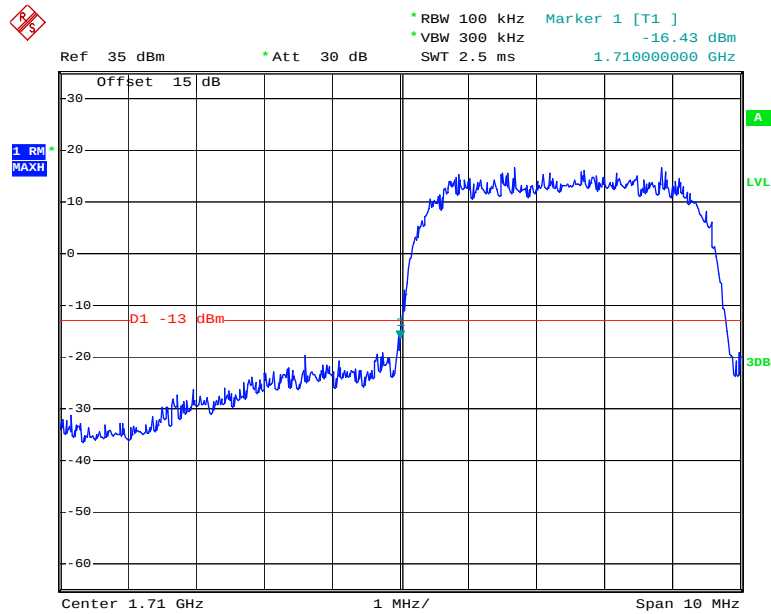
Date: 9.MAR.2015 17:46:02

REL99 Band IV Right Band Edge



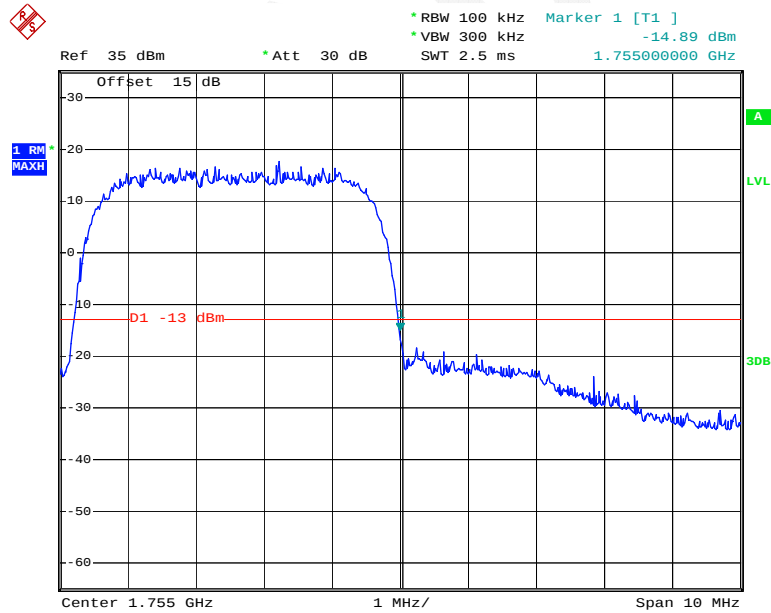
Date: 9.MAR.2015 17:41:56

HSDPA Band IV, Left Band Edge



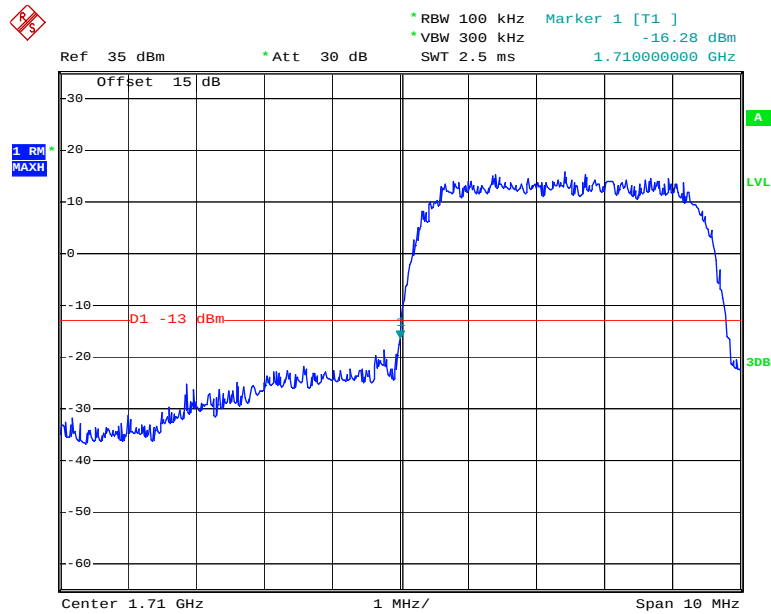
Date: 9.MAR.2015 17:46:32

HSDPA Band IV, Right Band Edge



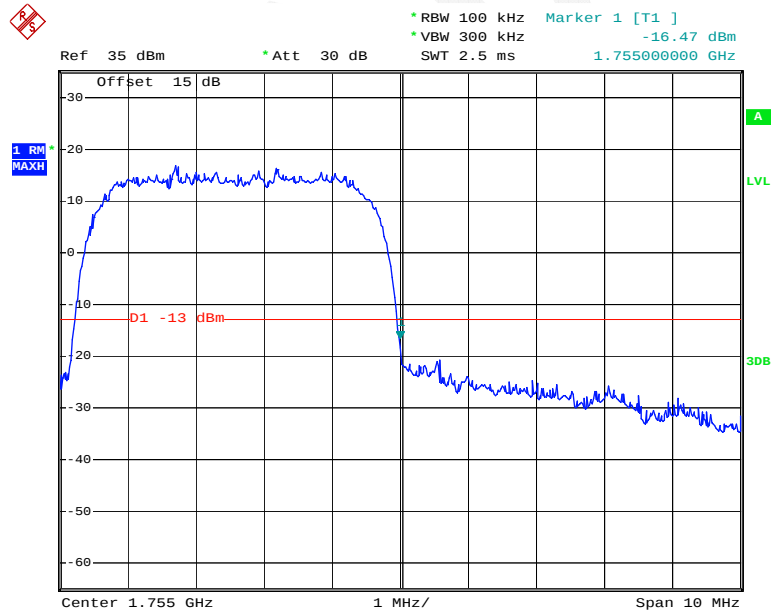
Date: 9.MAR.2015 17:44:48

HSUPA Band IV, Left Band Edge



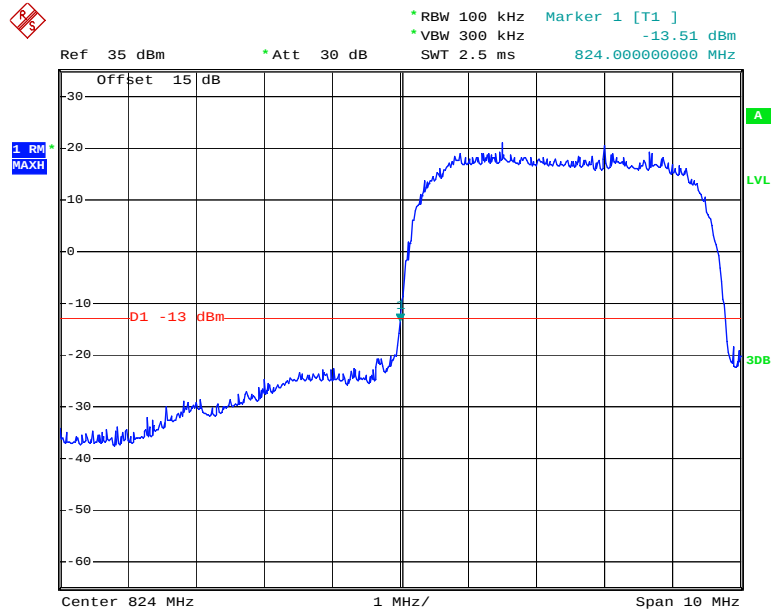
Date: 9.MAR.2015 17:46:20

HSUPA Band IV, Right Band Edge



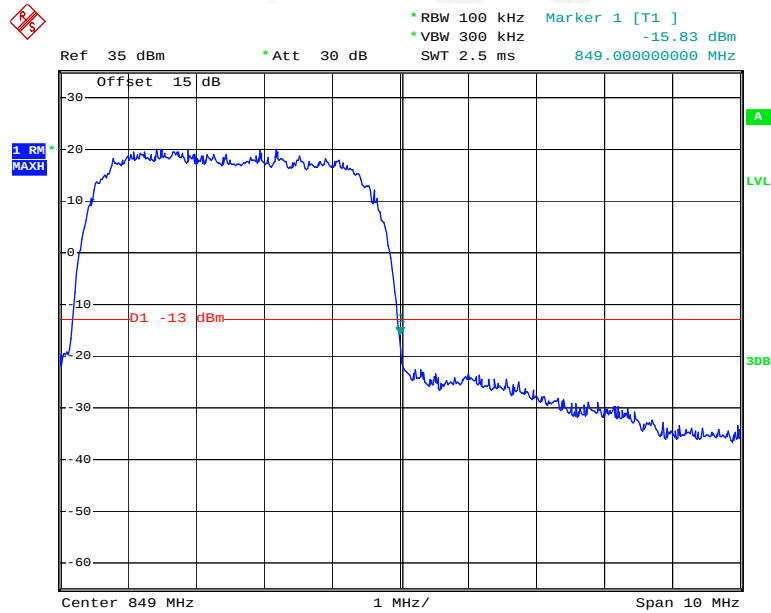
Date: 9.MAR.2015 17:43:25

REL99 Band V, Left Band Edge



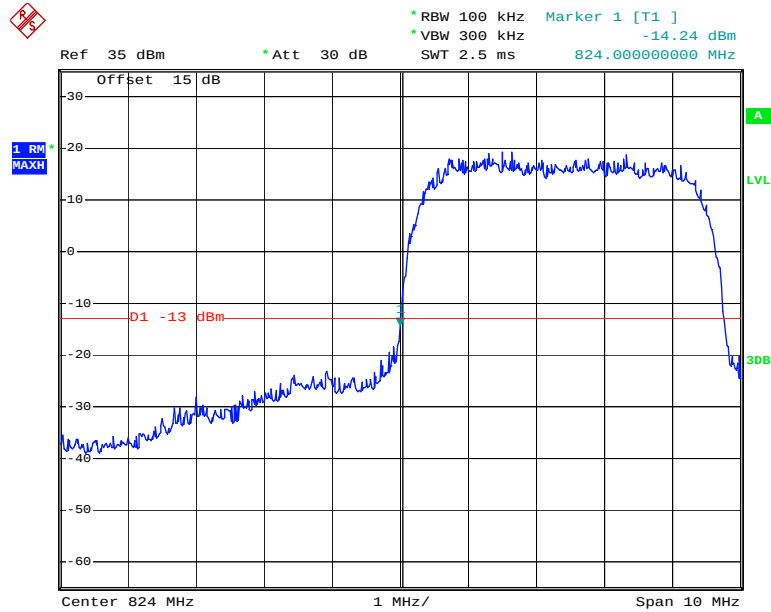
Date: 9.MAR.2015 15:57:39

REL99 Band V Right Band Edge



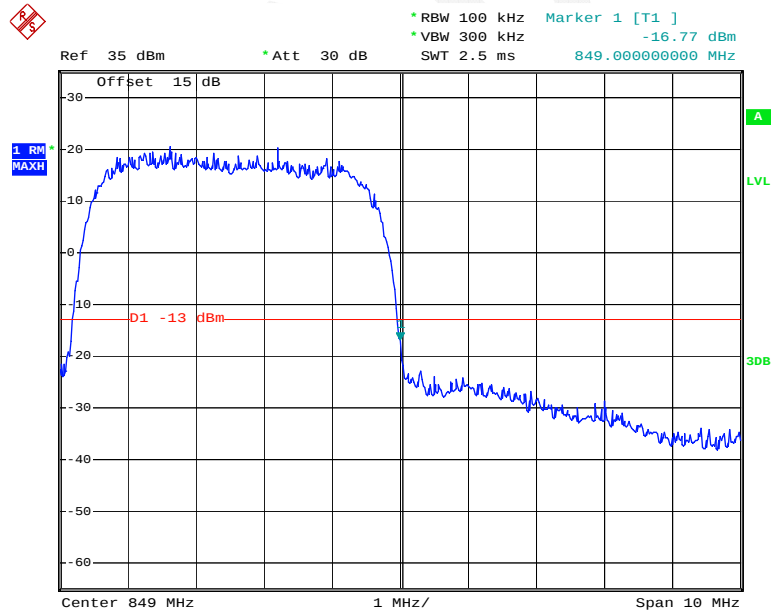
Date: 9.MAR.2015 15:59:02

HSDPA Band V, Left Band Edge



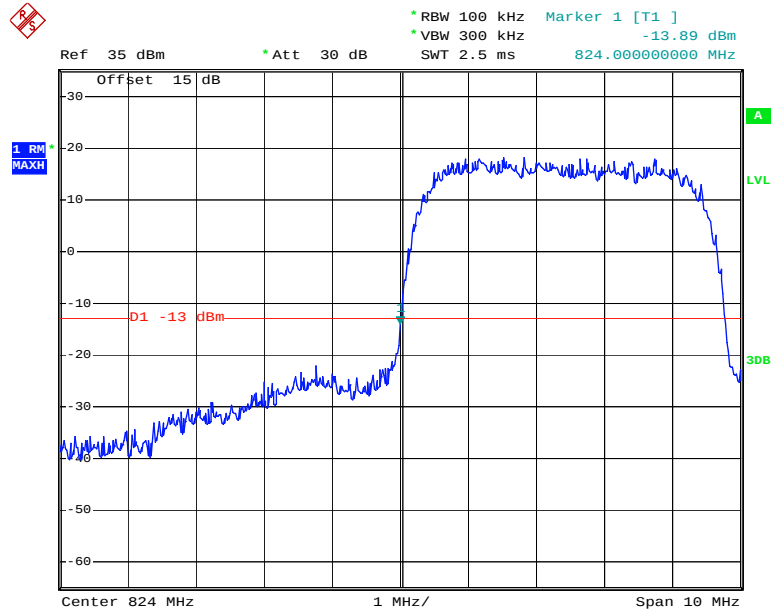
Date: 9.MAR.2015 15:57:48

HSDPA Band V, Right Band Edge



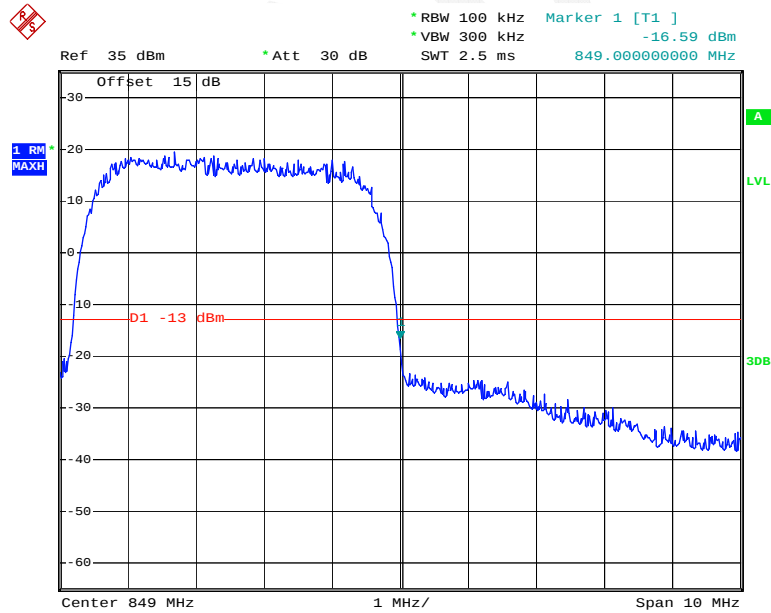
Date: 9.MAR.2015 15:59:09

HSUPA Band V, Left Band Edge



Date: 9.MAR.2015 15:58:02

HSUPA Band V, Right Band Edge



Date: 9.MAR.2015 15:59:16

FCC §2.1055, §22.355 & §24.235 & §27.54 - FREQUENCY STABILITY

Applicable Standard

FCC § 2.1055 (a), § 2.1055 (d), §22.355, §24.235, §27.54

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:

Frequency Tolerance for Transmitters in the Public Mobile Services

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

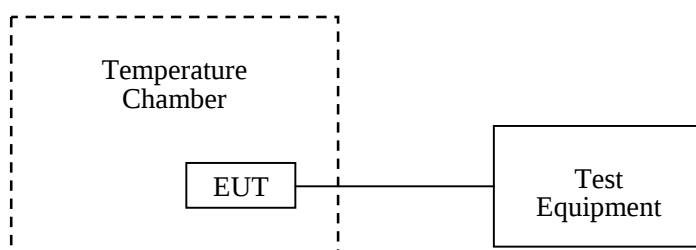
According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

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.



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	2014-05-09	2015-05-09

* **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:	22.1~23.1 °C
Relative Humidity:	55~70%
ATM Pressure:	100.8~101.7kPa

The testing was performed by Dean Liu from 2015-03-04 to 2015-03-12.

Cellular Band (Part 22H)

GMSK, Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
°C	V _{DC}	Hz	ppm	ppm
-30	3.7	27	0.032	2.5
-20	3.7	23	0.027	2.5
-10	3.7	25	0.030	2.5
0	3.7	24	0.029	2.5
10	3.7	26	0.031	2.5
20	3.7	27	0.032	2.5
30	3.7	30	0.036	2.5
40	3.7	22	0.026	2.5
50	3.7	31	0.037	2.5
25	3.5	23	0.027	2.5
25	4.2	26	0.031	2.5

WCDMA Band V: Re199

Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
°C	V _{DC}	Hz	ppm	ppm
-30	3.7	21	0.025	2.5
-20	3.7	29	0.035	2.5
-10	3.7	23	0.027	2.5
0	3.7	30	0.036	2.5
10	3.7	22	0.026	2.5
20	3.7	27	0.032	2.5
30	3.7	23	0.027	2.5
40	3.7	29	0.035	2.5
50	3.7	27	0.032	2.5
25	3.5	23	0.027	2.5
25	4.2	24	0.029	2.5

WCDMA Band V: HSDPA

Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
°C	V _{DC}	Hz	ppm	ppm
-30	3.7	15	0.018	2.5
-20	3.7	19	0.023	2.5
-10	3.7	13	0.016	2.5
0	3.7	21	0.025	2.5
10	3.7	16	0.019	2.5
20	3.7	16	0.019	2.5
30	3.7	16	0.019	2.5
40	3.7	20	0.024	2.5
50	3.7	14	0.017	2.5
25	3.5	16	0.019	2.5
25	4.2	17	0.020	2.5

WCDMA Band V: HSUPA

Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
°C	V _{DC}	Hz	ppm	ppm
-30	3.7	22	0.026	2.5
-20	3.7	26	0.031	2.5
-10	3.7	29	0.035	2.5
0	3.7	24	0.029	2.5
10	3.7	29	0.035	2.5
20	3.7	23	0.027	2.5
30	3.7	29	0.035	2.5
40	3.7	24	0.029	2.5
50	3.7	25	0.030	2.5
25	3.5	26	0.031	2.5
25	4.2	21	0.025	2.5

PCS Band (Part 24E)

GMSK, Middle Channel, $f_c = 1880.0$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
°C	V _{DC}	Hz	ppm	
-30	3.7	21	0.011	Pass
-20	3.7	25	0.013	Pass
-10	3.7	26	0.014	Pass
0	3.7	27	0.014	Pass
10	3.7	24	0.013	Pass
20	3.7	25	0.013	Pass
30	3.7	28	0.015	Pass
40	3.7	31	0.016	Pass
50	3.7	30	0.016	Pass
25	3.5	28	0.015	Pass
25	4.2	23	0.012	Pass

WCDMA Band II: Re199

Middle Channel, $f_c = 1880.0$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
°C	V _{DC}	Hz	ppm	
-30	3.7	23	0.012	Pass
-20	3.7	29	0.015	Pass
-10	3.7	26	0.014	Pass
0	3.7	24	0.013	Pass
10	3.7	21	0.011	Pass
20	3.7	28	0.015	Pass
30	3.7	29	0.015	Pass
40	3.7	23	0.012	Pass
50	3.7	27	0.014	Pass
25	3.5	26	0.014	Pass
25	4.2	25	0.013	Pass

WCDMA Band II: HSDPA

Middle Channel, $f_c = 1880.0$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
°C	V _{DC}	Hz	ppm	
-30	3.7	21	0.011	Pass
-20	3.7	14	0.007	Pass
-10	3.7	20	0.011	Pass
0	3.7	14	0.007	Pass
10	3.7	21	0.011	Pass
20	3.7	19	0.010	Pass
30	3.7	18	0.010	Pass
40	3.7	20	0.011	Pass
50	3.7	22	0.012	Pass
25	3.5	23	0.012	Pass
25	4.2	19	0.010	Pass

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	14	0.007	Pass
-20	3.7	15	0.008	Pass
-10	3.7	13	0.007	Pass
0	3.7	11	0.006	Pass
10	3.7	16	0.009	Pass
20	3.7	13	0.007	Pass
30	3.7	15	0.008	Pass
40	3.7	12	0.006	Pass
50	3.7	20	0.011	Pass
25	3.5	16	0.009	Pass
25	4.2	14	0.007	Pass

WCDMA Band IV: Re199

Middle Channel, $f_c = 1732.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
°C	V _{DC}	Hz	ppm	
-30	3.7	17	0.010	Pass
-20	3.7	15	0.009	Pass
-10	3.7	18	0.010	Pass
0	3.7	11	0.006	Pass
10	3.7	12	0.007	Pass
20	3.7	15	0.009	Pass
30	3.7	19	0.011	Pass
40	3.7	11	0.006	Pass
50	3.7	10	0.006	Pass
25	3.5	16	0.009	Pass
25	4.2	14	0.008	Pass

WCDMA Band IV: HSDPA

Middle Channel, $f_c = 1732.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
°C	V _{DC}	Hz	ppm	
-30	3.7	16	0.009	Pass
-20	3.7	14	0.008	Pass
-10	3.7	10	0.006	Pass
0	3.7	17	0.010	Pass
10	3.7	11	0.006	Pass
20	3.7	17	0.010	Pass
30	3.7	19	0.011	Pass
40	3.7	15	0.009	Pass
50	3.7	19	0.011	Pass
25	3.5	11	0.006	Pass
25	4.2	15	0.009	Pass

WCDMA Band IV: HSUPA

Middle Channel, $f_c = 1732.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
°C	V _{DC}	Hz	ppm	
-30	3.7	19	0.011	Pass
-20	3.7	15	0.009	Pass
-10	3.7	14	0.008	Pass
0	3.7	13	0.007	Pass
10	3.7	21	0.012	Pass
20	3.7	14	0.008	Pass
30	3.7	16	0.009	Pass
40	3.7	20	0.011	Pass
50	3.7	13	0.007	Pass
25	3.5	16	0.009	Pass
25	4.2	18	0.010	Pass

Note: The fundamental emissions stay within the authorized bands of operation based on the frequency deviation measured is small.

DECLARATION LETTER**Dynamics Hong Kong Limited****Declaration of Alteration**

To Whom It May Concern,

We, Dynamics Hong Kong Limited hereby declare that there are some differences between our Multiple Models and testing model. Details as below:

Products	Name	Mobile Phone	
Description	Project No.	RDG150226001, RDG150226001-20	
Differences Description			
Testing model	Multiple Models	Differences Items	Details
PRIME4.0PLUS	RING4.0PLUS	Model name	The multiple model just have different model name from the testing model

Notes: Testing model-the product's model tested by BACL

Multiple Model- have the same or similar appearance, structure, PCB, Material and function to the testing product's model, and only are different for model name.

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: Rajendra Kumar Thapa

Title: Director

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