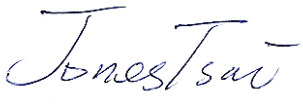
FCC RF Test Report

APPLICANT	:	BLU Products, Inc.
EQUIPMENT	:	Mobile phone
BRAND NAME	:	BLU
MODEL NAME	:	STUDIO X MINI
FCC ID	:	YHLBLUSTXMINI
STANDARD	:	FCC 47 CFR Part 2, 22(H), 24(E), 27(L)
CLASSIFICATION	:	PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Dec. 22, 2016 and testing was completed on Mar. 16, 2016. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-D-2010 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (SHENZHEN) INC., the test report shall not be reproduced except in full.

Prepared by: Andy Yeh / Manager



Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (SHENZHEN) INC.

1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China

TABLE OF CONTENTS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG5D2207A	Rev. 01	Initial issue of report	Mar. 25, 2016

SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.4	§2.1046	RSS-132 (5.4) RSS-133 (6.4) RSS-139 (6.5)	Conducted Output Power	Reporting Only	PASS	-
3.5	§24.232(d)	RSS-132 (5.4) RSS-133 (6.4) RSS-139 (6.5)	Peak-to-Average Ratio	< 13 dB	PASS	-
3.6	§2.1049 §22.917(b) §24.238(b) §27.53(g)	RSS-GEN(6.6) RSS-132(3.1) RSS-133(3.1) RSS-139 (3.1)	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(h)	RSS-132 (5.5) RSS-133 (6.5) RSS-139 (6.6)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(h)	RSS-132 (5.5) RSS-133 (6.5) RSS-139 (6.6)	Conducted Emission	< 43+10log10(P[Watts])	PASS	-
3.9	§2.1055 §22.355	RSS-GEN(6.11) RSS-132 (5.3)	Frequency Stability for Temperature & Voltage	< 2.5 ppm for Part 22	PASS	-
	§2.1055 §24.235 §27.54	RSS-GEN(6.11) RSS-133 (6.3) RSS-139 (6.4)		Within Authorized Band		

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
4.4	§22.913(a)(2)	RSS-132(5.4) SRSP-503(5.1.3)	Effective Radiated Power	< 7 Watts	PASS	-
	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
	§27.50(d)(4)	RSS-139 (6.5) SRSP-513(5.1.2)	Equivalent Isotropic Radiated Power	< 1 Watts	PASS	-
4.5	§2.1053 §22.917(a) §24.238(a) §27.53(h)	RSS-132 (5.5) RSS-133 (6.5) RSS-139 (6.6)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 29.15 dB at 7410.000 MHz

1 General Description

1.1 Applicant

BLU Products, Inc.
10814 NW 33rd St # 100 Doral, FL 33172

1.2 Manufacturer

BLU Products, Inc.
10814 NW 33rd St # 100 Doral, FL 33172

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile phone
Brand Name	BLU
Model Name	STUDIO X MINI
FCC ID	YHLBLUSTXMINI
EUT supports Radios application	GSM/GPRS/WCDMA/HSPA/LTE/ WLAN 2.4GHz 802.11b/g/n HT20/HT40/ Bluetooth v3.0+EDR/ Bluetooth v4.0 LE
IMEI Code	Conducted: 359281015336210/359281015336210 Radiation: 868455018645124/868455018645314 ERP&EIRP: 868455018645124/868455018645314
HW Version	V1.1
SW Version	BLU_S0150UU_V06_GENERIC
EUT Stage	Pre-Production

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	**GSM/GPRS** 850: 824.2 MHz ~ 848.8 MHz 1900: 1850.2 MHz ~ 1909.8MHz **WCDMA:** Band V: 826.4 MHz ~ 846.6 MHz Band II: 1852.4 MHz ~ 1907.6 MHz Band IV: 1712.4 MHz ~ 1752.6 MHz
Rx Frequency	**GSM/GPRS** 850: 869.2 MHz ~ 893.8 MHz 1900: 1930.2 MHz ~ 1989.8 MHz **WCDMA:** Band V: 871.4 MHz ~ 891.6 MHz Band II: 1932.4 MHz ~ 1987.6 MHz Band IV: 2112.4 MHz ~ 2152.6 MHz
Maximum Output Power to Antenna	**GSM/GPRS** 850: 31.73 dBm 1900: 29.30 dBm **WCDMA:** Band V: 23.06 dBm Band II: 22.90 dBm Band IV: 22.95 dBm
Antenna Type	PIFA Antenna
Type of Modulation	GSM: GMSK GPRS: GMSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink)

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (ppm)	Emission Designator
Part 22	GSM850 GSM	GMSK	0.7542	0.0155 ppm	244KGXW
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK	0.1029	0.0143 ppm	4M23F9W
Part 24	GSM1900 GSM	GMSK	1.5049	0.0128 ppm	243KGXW
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK	0.3160	0.0074 ppm	4M22F9W
Part 27	WCDMA Band IV RMC 12.2Kbps	QPSK	0.1502	0.0058 ppm	4M21F9W

1.7 Testing Location

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.
Test Site Location	1F & 2F,Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China TEL: +86-755-8637-9589 FAX: +86-755-8637-9595
Test Site No.	**Sporton Site No.**
	TH01-SZ

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.	
Test Site Location	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958	
Test Site No.	**Sporton Site No.**	**FCC/IC Registration No.**
	03CH02-KS	418269/4086E

Note: The test site complies with ANSI C63.4 2014 requirement.

1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, 22(H), 24(E), 27(L)
- ANSI / TIA / EIA-603-D-2010
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02
- IC RSS-132 Issue 3
- IC RSS-133 Issue 6
- IC RSS-139 Issue 3
- IC RSS-Gen Issue 4

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r02 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

1. 30 MHz to 9000 MHz for GSM850 and WCDMA Band V.
2. 30 MHz to 18000 MHz for WCDMA Band IV.
3. 30 MHz to 19000 MHz for GSM1900 and WCDMA Band II.

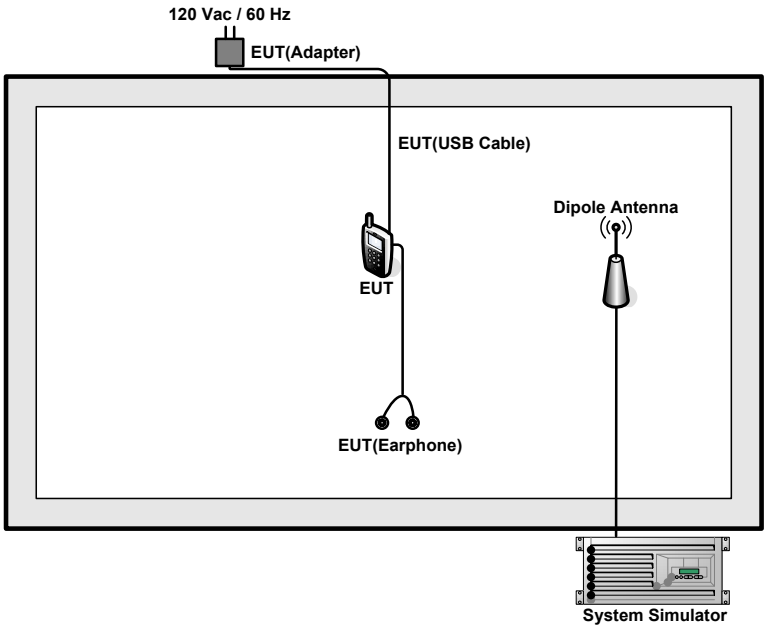
All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

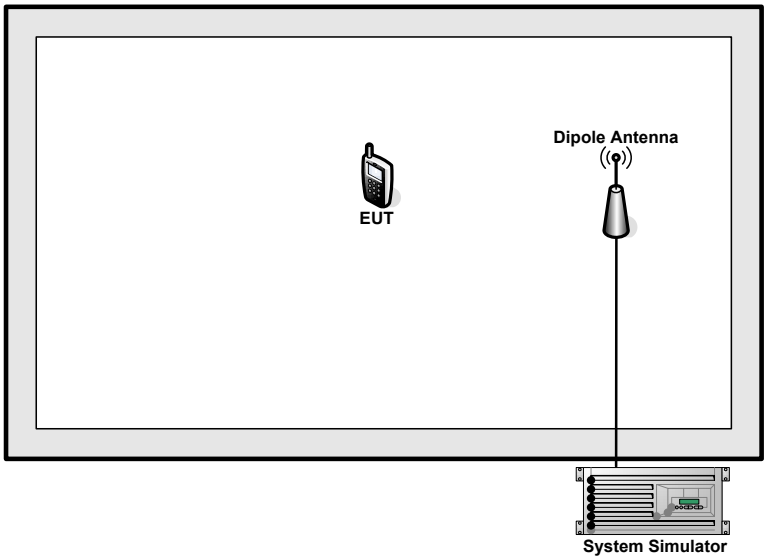
Test Modes		
Band	**Radiated TCs**	**Conducted TCs**
GSM 850	■ GSM Link	■ GSM Link
GSM 1900	■ GSM Link	■ GSM Link
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link
WCDMA Band IV	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link

2.2 Connection Diagram of Test System

For 22H/27L



For 24E



2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GW INSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 4.5 dB and a 10dB attenuator.

Example :

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.5 + 10 = 14.5 (dB)

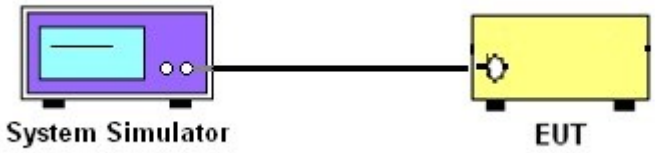
3 Conducted Test Result

3.1 Measuring Instruments

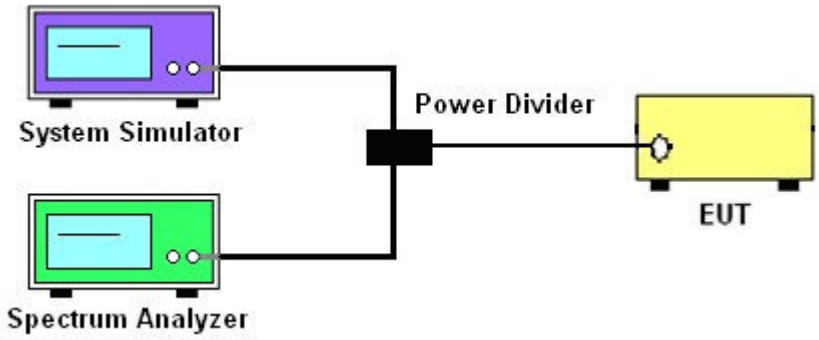
See list of measuring instruments of this test report.

3.2 Test Setup

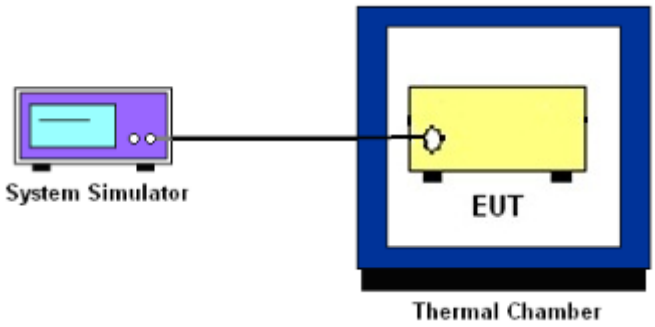
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power

3.4.1 Description of the Conducted Output Power

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

3.4.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

1. The testing follows FCC KDB 971168 D01 v02r02 Section 5.7.1.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. Set EUT to transmit at maximum output power.
4. When the duty cycle is less than 98%, then signal gating will be implemented on the spectrum analyzer by triggering from the system simulator.
5. Set the CCDF (Complementary Cumulative Distribution Function) option of the spectrum analyzer.

Record the maximum PAPR level associated with a probability of 0.1%.

3.6 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.6.1 Description of 99% Occupied Bandwidth and 26dB Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.6.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 4.2.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace. (this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “–X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

3.7.2 Test Procedures

1. The testing follows FCC KDB 971168 D01 v02r02 Section 6.0.
2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The band edges of low and high channels for the highest RF powers were measured.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
   = P(W) - [43 + 10log(P)] (dB)
   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
   = -13dBm.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10^{th} harmonic.

3.8.2 Test Procedures

1. The testing follows FCC KDB 971168 D01 v02r02 Section 6.0.
2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

= P(W) - [43 + 10log(P)] (dB)

= [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)

= -13dBm.

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

3.9.2 Test Procedures for Temperature Variation

1. The testing follows FCC KDB 971168 D01 v02r02 Section 9.0.
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.9.3 Test Procedures for Voltage Variation

1. The testing follows FCC KDB 971168 D01 v02r02 Section 9.0.
2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.

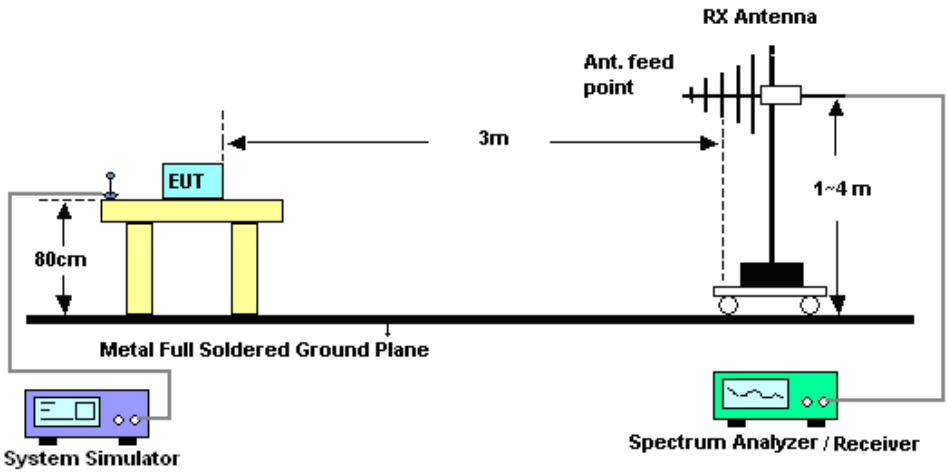
4 Radiated Test Items

4.1 Measuring Instruments

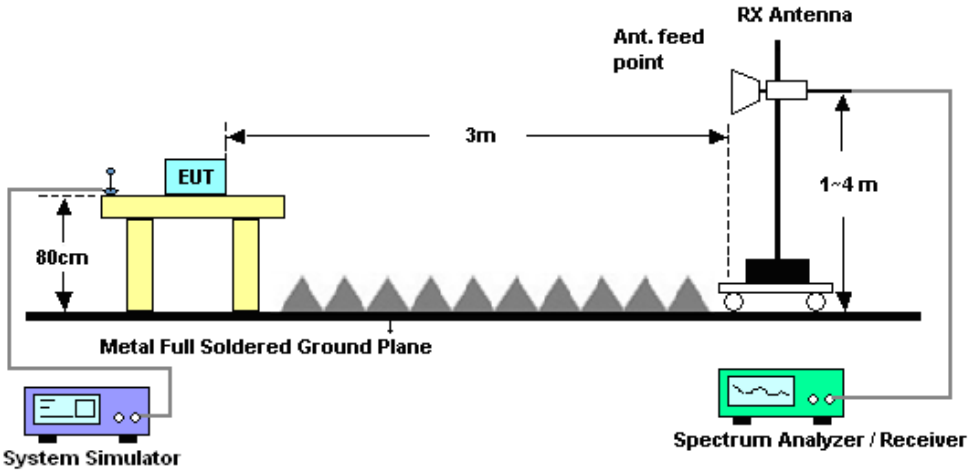
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

4.4 Effective Radiated Power and Effective Isotropic Radiated Power Measurement

4.4.1 Description of the ERP/EIRP Measurement

The substitution method, in ANSI / TIA / EIA-603-D-2010, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r02. The ERP of mobile transmitters must not exceed 7 Watts (Cellular Band) and the EIRP of mobile transmitters are limited to 2 Watts (PCS Band) and 1 Watts (AWS Band).

4.4.2 Test Procedures

1. The testing follows FCC KDB 971168 D01 v02r02 Section 5.2.1. (for CDMA/WCDMA), Section 5.2.2.2 (for GSM/GPRS/EDGE) and ANSI / TIA-603-D-2010 Section 2.2.17.
2. The EUT was placed on a non-conductive rotating platform 0.8 meters high in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RMS detector per section 5. of KDB 971168 D01.
3. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power. The maximum emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.
4. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to TIA/EIA-603-D. The EUT was replaced by the substitution antenna at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain - Analyzer reading. Then the EUT's EIRP was calculated with the correction factor, EIRP = LVL + Correction factor and ERP = EIRP - 2.15. Take the record of the output power at substitution antenna.

	GSM/GPRS/EDGE	WCDMA/HSPA
SPAN	500kHz	10MHz
RBW	10kHz	100kHz
VBW	30kHz	300kHz
Detector	RMS	RMS
Trace	Average	Average
Average Type	Power	Power
Sweep Count	100	100

4.5 Field Strength of Spurious Radiation Measurement

4.5.1 Description of Field Strength of Spurious Radiated Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.5.2 Test Procedures

1. The testing follows FCC KDB 971168 D01 v02r02 Section 5.8 and ANSI / TIA-603-D-2010 Section 2.2.12.
2. The EUT was placed on a rotatable wooden table 0.8 meters above the ground.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
12. ERP (dBm) = EIRP - 2.15
13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

    = P(W) - [43 + 10log(P)] (dB)

    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)

    = -13dBm.

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	9kHz~40GHz	May 05.2015	Dec. 30, 2015~ Jan. 11, 2016	May 04.2016	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Aug. 07, 2015	Dec. 30, 2015~ Jan. 11, 2016	Aug. 06, 2016	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Max 30dBm	Sep. 10, 2015	Mar. 16, 2016	Sep. 09, 2016	Radiation (03CH02-KS)
Spectrum Analyzer	R&S	FSV40	101040	10kHz~40GHz;Max 30dBm	Sep. 10, 2015	Mar. 16, 2016	Sep. 09, 2016	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6112D	37879	30MHz-2GHz	Sep. 12, 2015	Mar. 16, 2016	Sep. 11, 2016	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Nov. 07, 2015	Mar. 16, 2016	Nov. 06, 2016	Radiation (03CH02-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1	1865802	1GHz-18GHz	Jan. 20, 2016	Mar. 16, 2016	Jan.19, 2017	Radiation (03CH02-KS)
SHF-EHF Horn	com-power	AH-840	101070	18Ghz-40Ghz	Oct. 10, 2015	Mar. 16, 2016	Oct. 09, 2016	Radiation (03CH02-KS)
Amplifier	com-power	PA-103A	161069	1kHz ~1000MHz / 32 dB	May 04, 2015	Mar. 16, 2016	May 03, 2016	Radiation (03CH02-KS)
Amplifier	Agilent	8449B	3008A02384	1-26.5GHz Gain 30dB	Oct. 24, 2015	Mar. 16, 2016	Oct. 23, 2016	Radiation (03CH02-KS)
Amplifier	MITEQ	TTA1840-35 -HG	1887435	18~40GHz	Aug. 27, 2015	Mar. 16, 2016	Aug. 26, 2016	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Mar. 16, 2016	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Mar. 16, 2016	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Mar. 16, 2016	NCR	Radiation (03CH02-KS)

NCR: No Calibration Required

6 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.1dB**

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

For SIM1 Card:

Conducted Power (*Unit: dBm)						
Band	GSM850			GSM1900		
Channel	128	189	251	512	661	810
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8
GSM	31.62	31.66	31.73	29.08	29.21	29.30
GPRS class 8	31.61	31.63	31.71	29.06	29.20	29.28
GPRS class 10	31.47	31.48	31.57	28.62	28.74	28.88
GPRS class 11	30.34	30.35	30.36	27.21	27.33	27.49
GPRS class 12	29.16	29.18	29.26	26.08	26.26	26.38

Conducted Power (*Unit: dBm)									
Band	WCDMA Band V			WCDMA Band II			WCDMA Band IV		
Channel	4132	4182	4233	9262	9400	9538	1312	1413	1513
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6
AMR 12.2Kbps	22.70	22.65	23.05	22.76	22.50	22.89	22.93	22.75	22.66
RMC 12.2Kbps	22.73	22.66	23.06	22.78	22.51	22.90	22.95	22.76	22.69
HSDPA Subtest-1	22.42	22.40	22.64	22.36	22.09	22.36	22.60	22.52	22.43
HSDPA Subtest-2	22.42	22.37	22.74	22.35	22.09	22.36	22.61	22.52	22.42
HSDPA Subtest-3	22.41	22.36	22.73	22.35	22.09	22.36	22.62	22.52	22.42
HSDPA Subtest-4	22.41	22.38	22.72	22.36	22.07	22.36	22.61	22.50	22.43
HSUPA Subtest-1	19.41	19.41	19.81	19.38	19.21	19.47	19.60	19.51	19.43
HSUPA Subtest-2	19.40	19.33	19.71	19.47	19.13	19.40	19.54	19.47	19.33
HSUPA Subtest-3	20.42	20.38	20.70	20.44	20.15	20.43	20.55	20.47	20.36
HSUPA Subtest-4	18.88	18.85	19.28	18.87	18.55	18.90	19.09	19.02	18.91
HSUPA Subtest-5	21.40	21.30	21.70	21.40	21.10	21.30	21.50	21.40	21.30

For SIM2 Card:

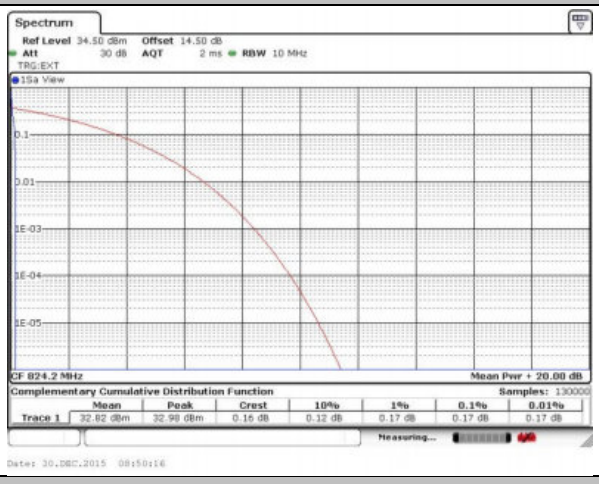
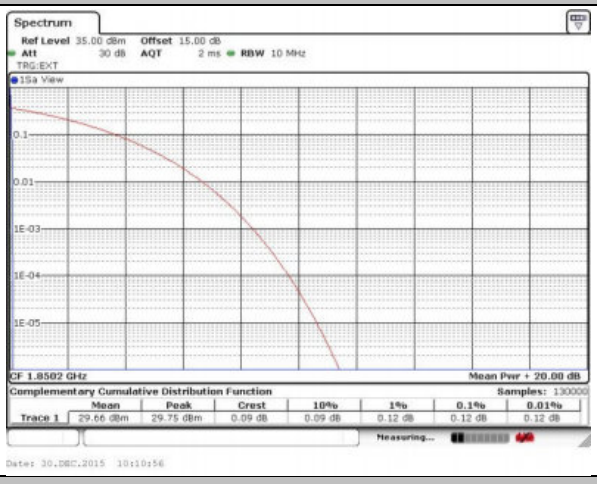
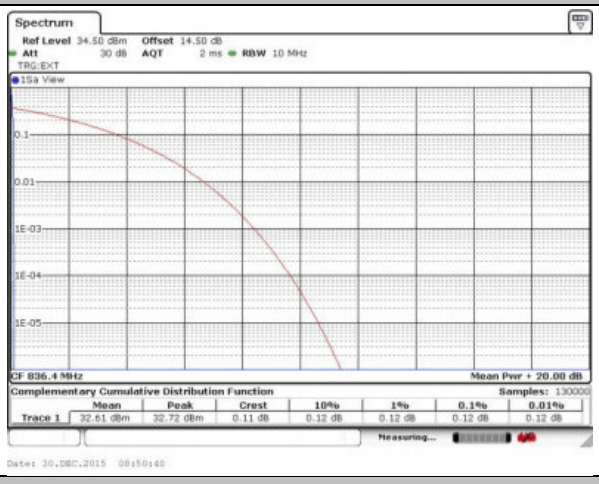
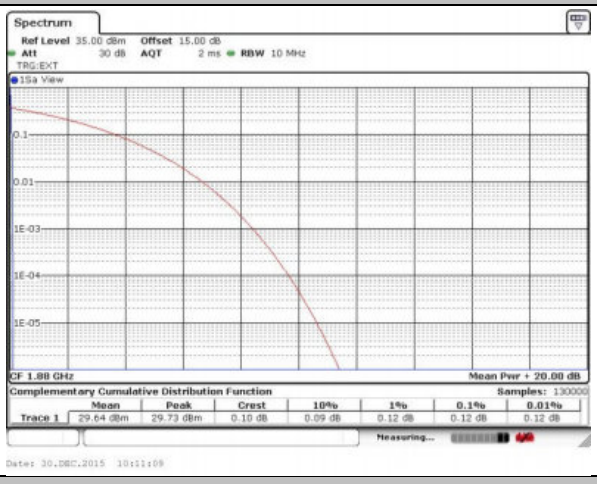
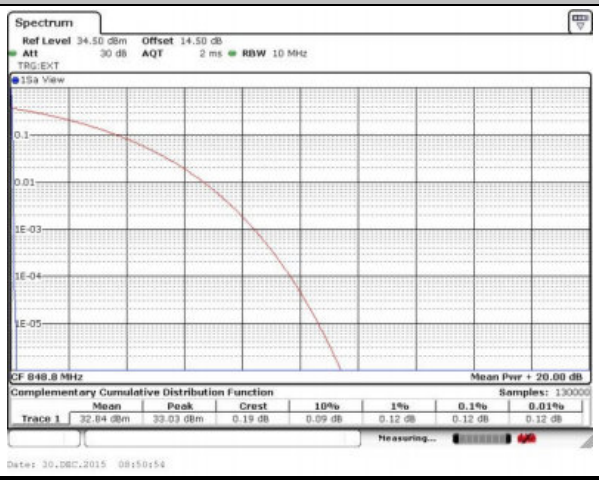
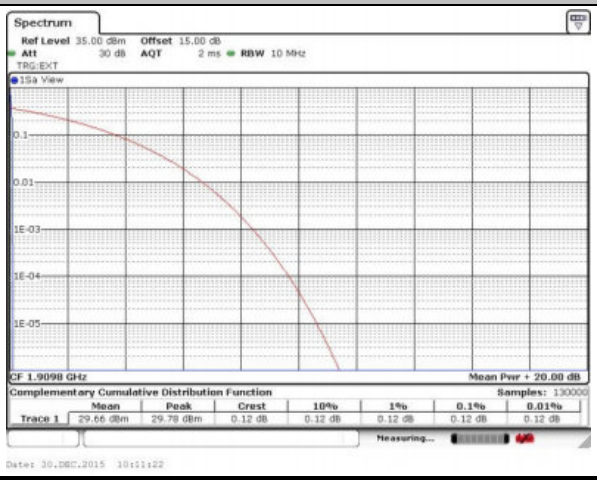
Conducted Power (*Unit: dBm)						
Band	GSM850			GSM1900		
Channel	128	189	251	512	661	810
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8
GSM	31.60	31.64	31.71	29.06	29.20	29.29
GPRS class 8	31.59	31.62	31.70	29.04	29.19	29.26
GPRS class 10	31.44	31.47	31.55	28.61	28.72	28.85
GPRS class 11	30.33	30.34	30.35	27.20	27.30	27.47
GPRS class 12	29.13	29.15	29.24	26.07	26.24	26.37

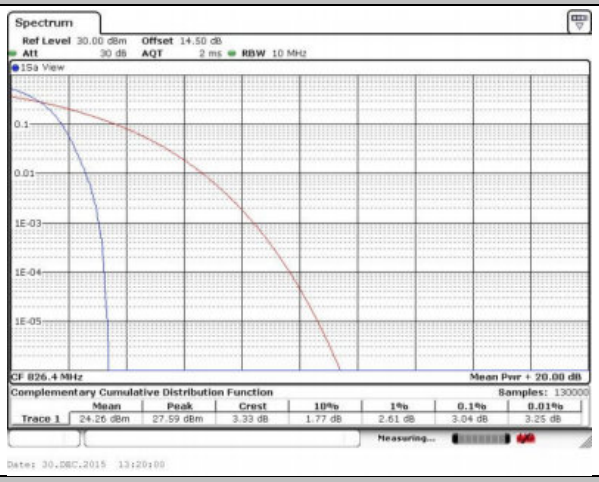
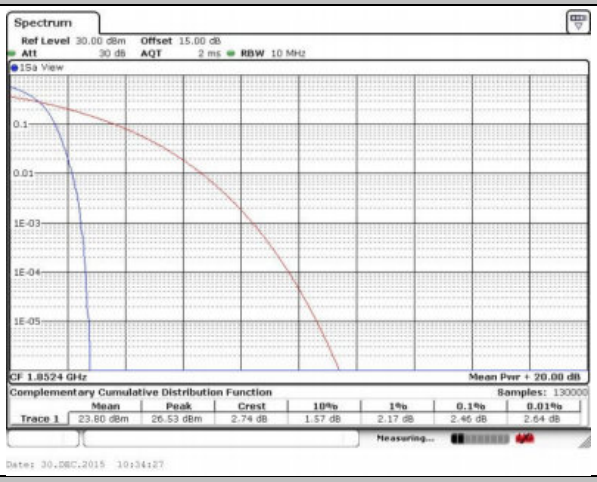
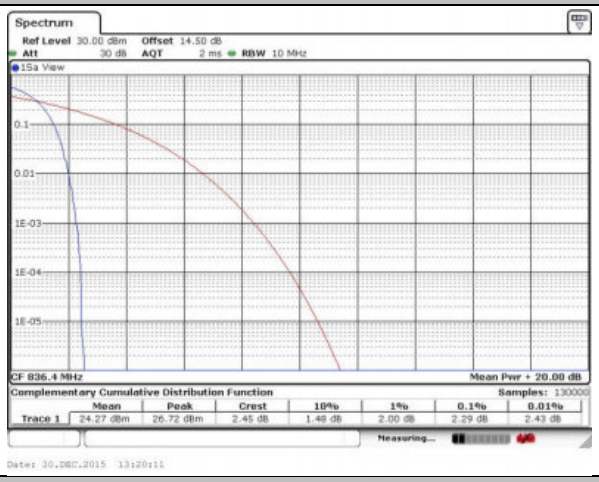
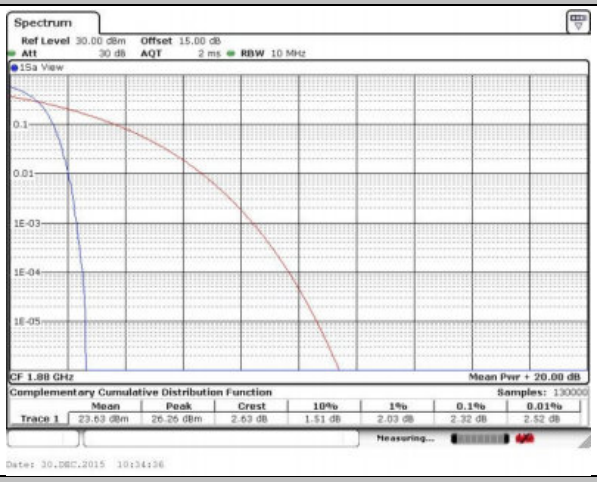
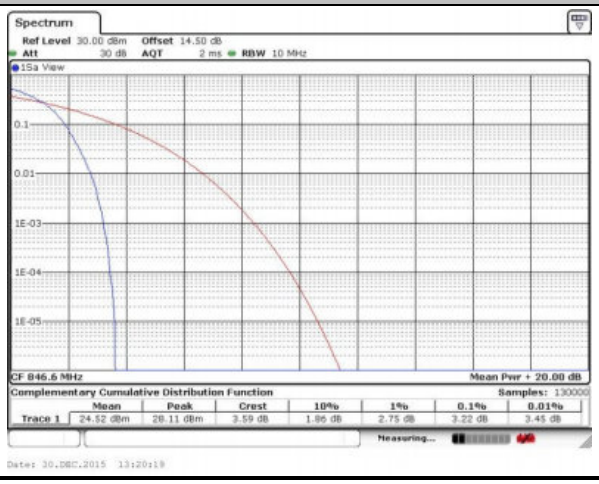
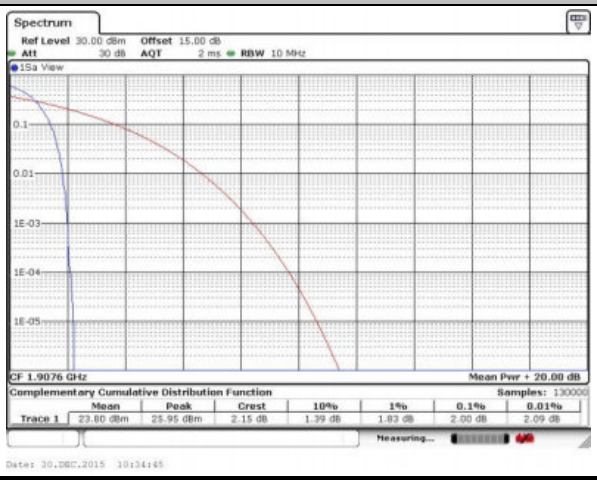
Conducted Power (*Unit: dBm)									
Band	WCDMA Band V			WCDMA Band II			WCDMA Band IV		
Channel	4132	4182	4233	9262	9400	9538	1312	1413	1513
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6
AMR 12.2Kbps	22.69	22.64	23.03	22.74	22.48	22.88	22.91	22.74	22.64
RMC 12.2Kbps	22.72	22.65	23.04	22.77	22.50	22.89	22.93	22.75	22.65
HSDPA Subtest-1	22.41	22.38	22.63	22.34	22.08	22.34	22.61	22.51	22.42
HSDPA Subtest-2	22.40	22.36	22.72	22.31	22.07	22.35	22.60	22.50	22.41
HSDPA Subtest-3	22.38	22.35	22.71	22.32	22.08	22.33	22.57	22.48	22.40
HSDPA Subtest-4	22.39	22.37	22.70	22.34	22.05	22.32	22.59	22.49	22.41
HSUPA Subtest-1	19.35	19.37	19.78	19.36	19.20	19.46	19.56	19.52	19.42
HSUPA Subtest-2	19.38	19.30	19.70	19.45	19.12	19.38	19.53	19.46	19.32
HSUPA Subtest-3	20.40	20.36	20.68	20.40	20.14	20.41	20.54	20.46	20.34
HSUPA Subtest-4	18.86	18.83	19.27	18.86	18.54	18.87	19.08	19.02	18.90
HSUPA Subtest-5	21.37	21.28	21.65	21.30	21.08	21.28	21.45	21.38	21.37

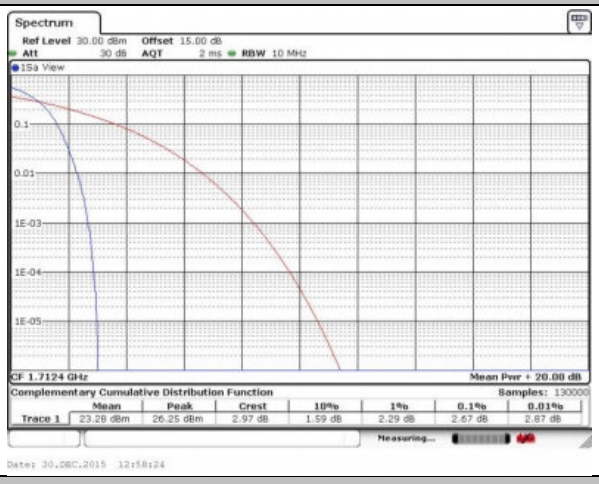
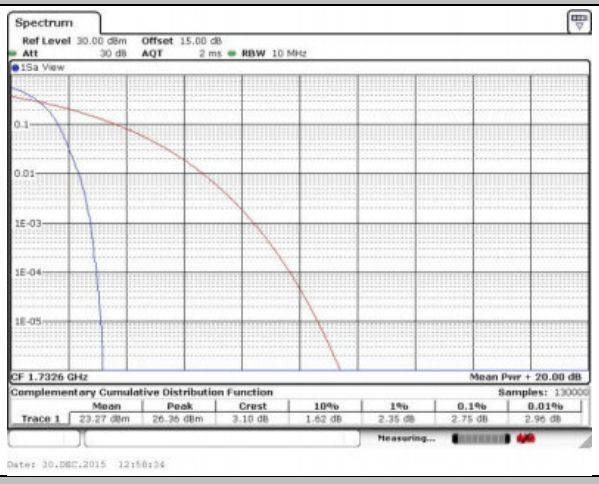
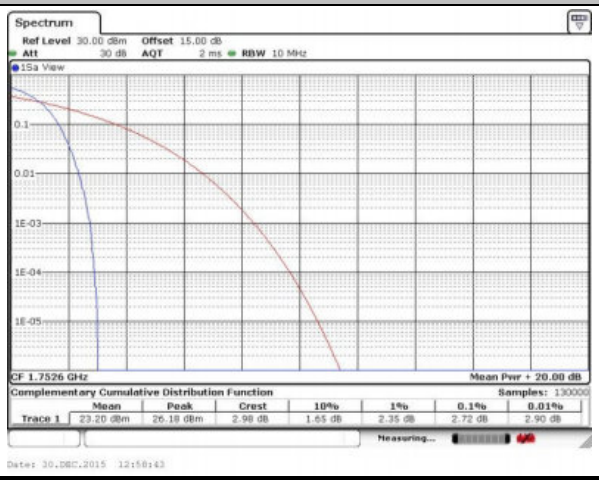
Peak-to-Average Ratio

Mode	GSM		Limit: 13dB
Mod.	GSM850	GSM1900	Result
Lowest CH	0.17	0.12	PASS
Middle CH	0.12	0.12	
Highest CH	0.12	0.12	

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	3.04	2.46	2.67	PASS
Middle CH	2.29	2.32	2.75	
Highest CH	3.22	2.00	2.72	

GSM850 (GSM)	GSM1900 (GSM)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

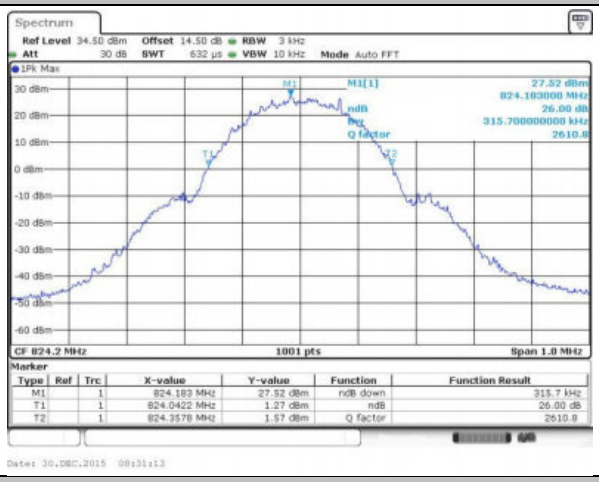
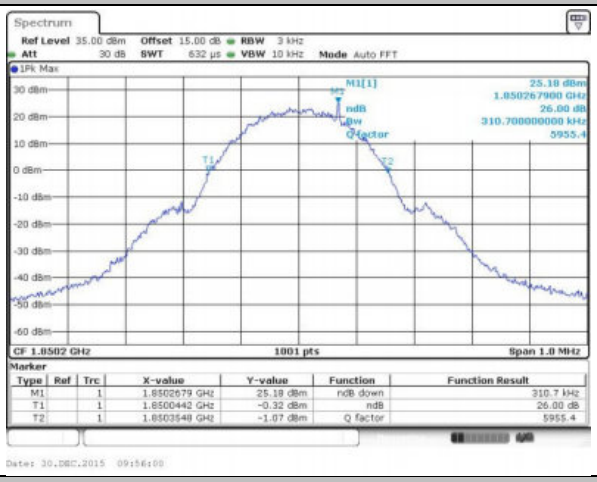
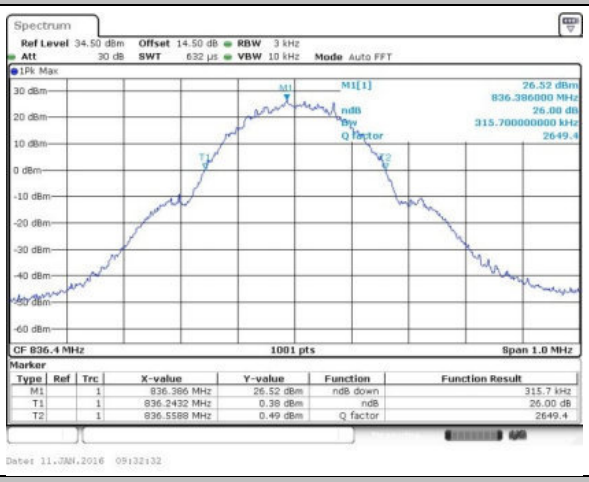
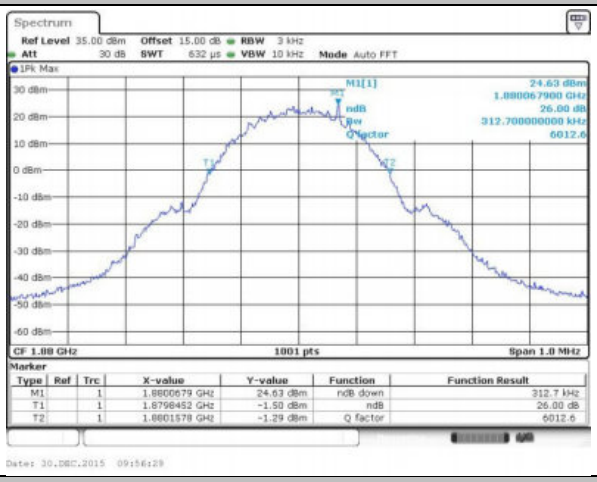
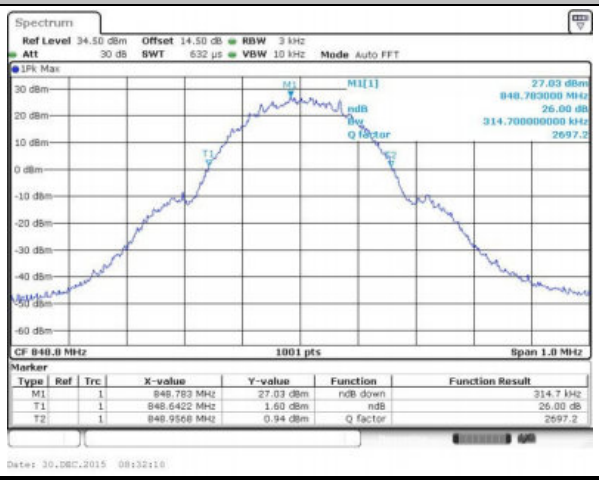
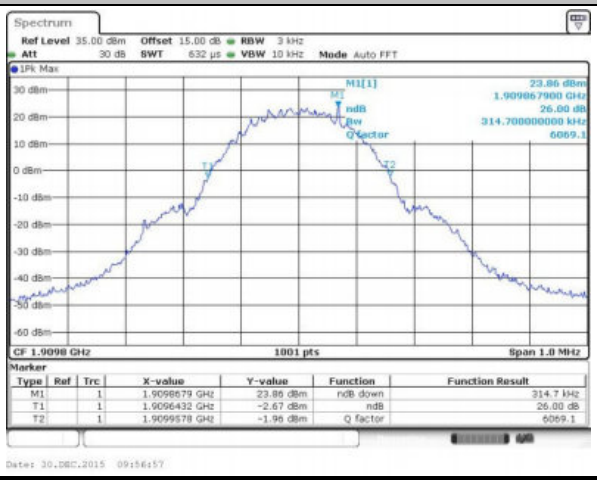
WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

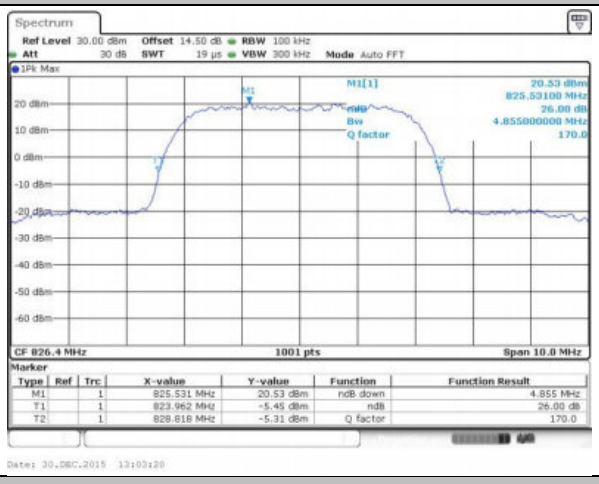
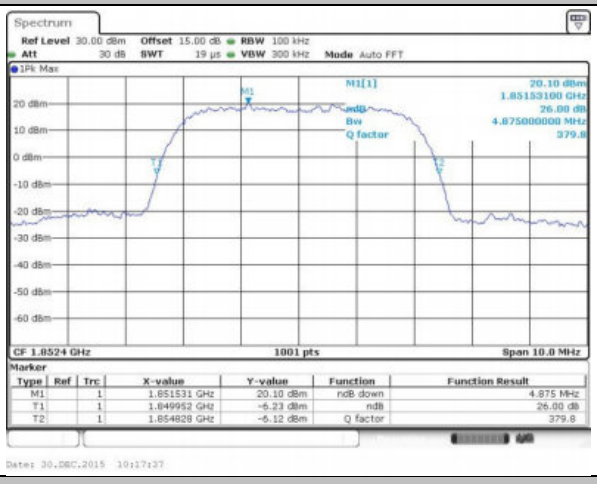
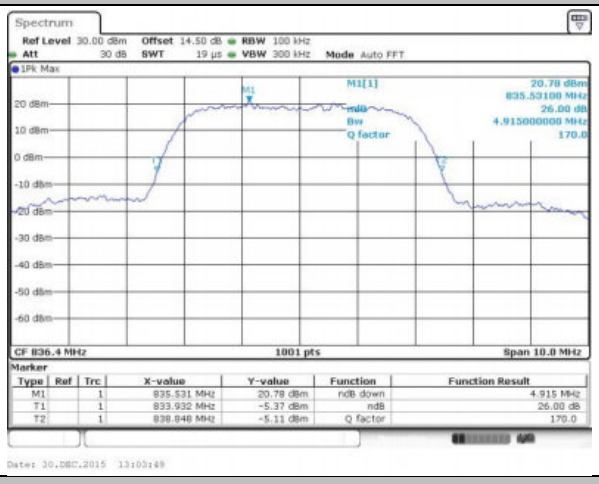
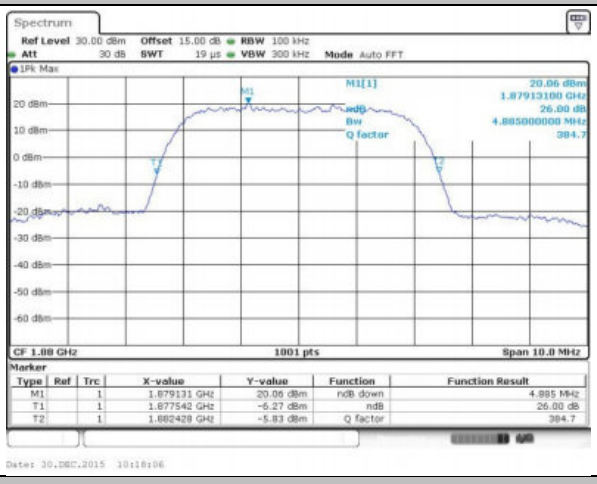
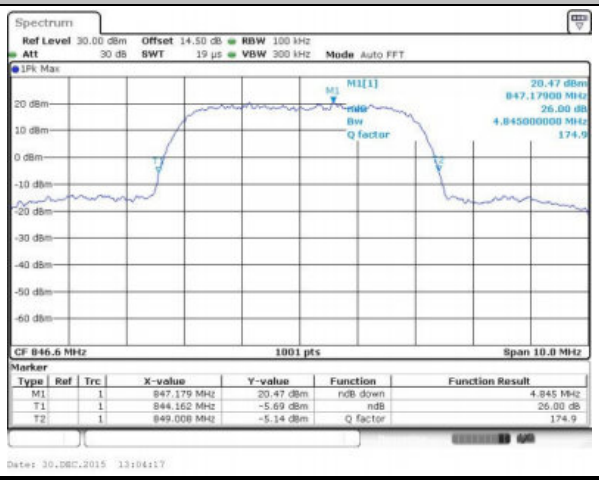
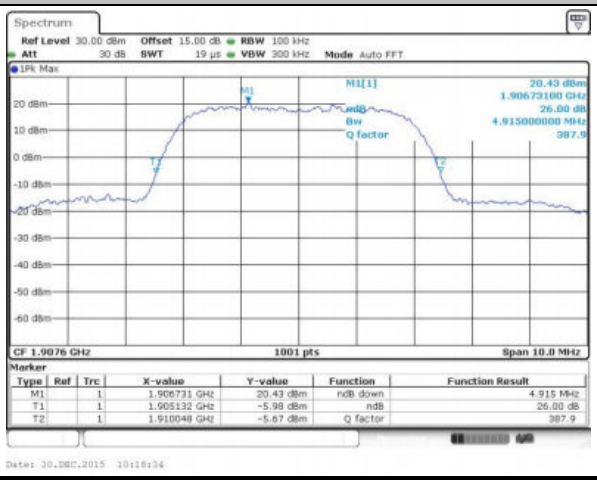
WCDMA Band IV (RMC 12.2Kbps)	
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

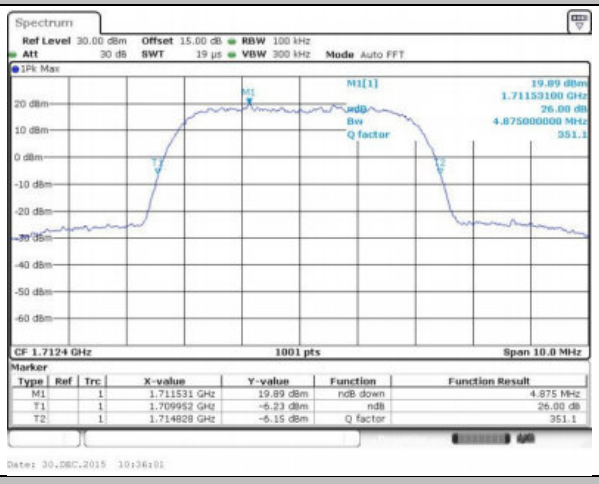
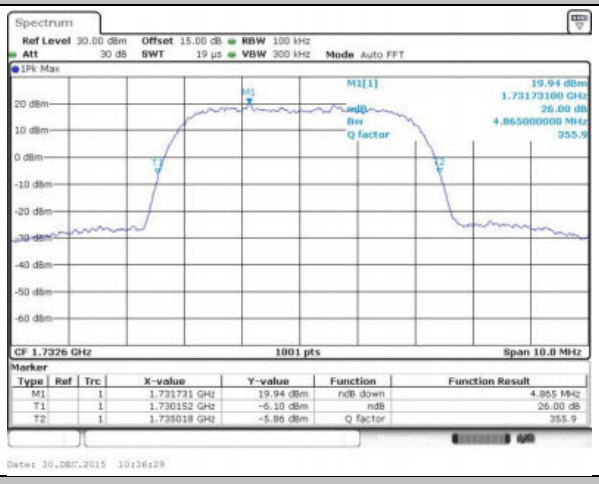
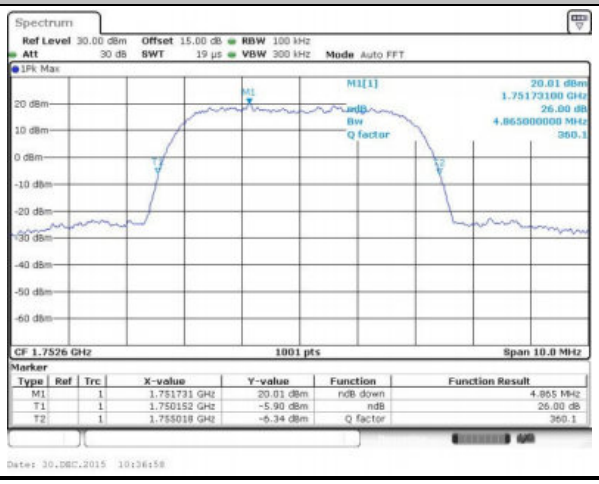
26dB Bandwidth

Mode	GSM	
Mod.	GSM850	GSM1900
Lowest CH	0.316	0.311
Middle CH	0.316	0.313
Highest CH	0.315	0.315

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.86	4.88	4.88
Middle CH	4.92	4.88	4.87
Highest CH	4.84	4.92	4.87

GSM850 (GSM)	GSM1900 (GSM)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

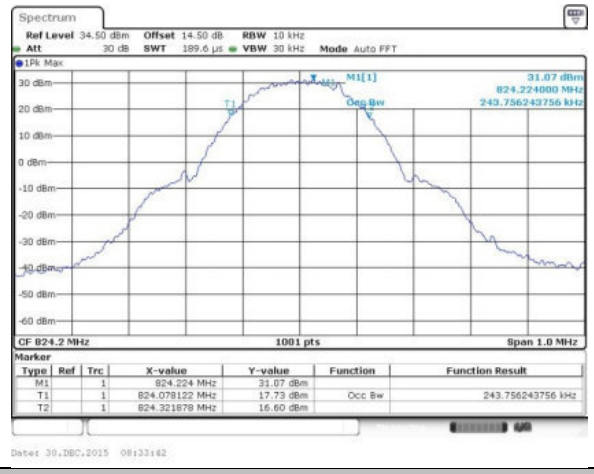
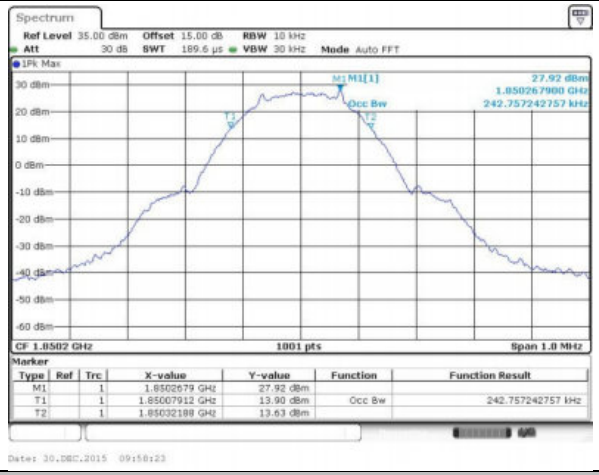
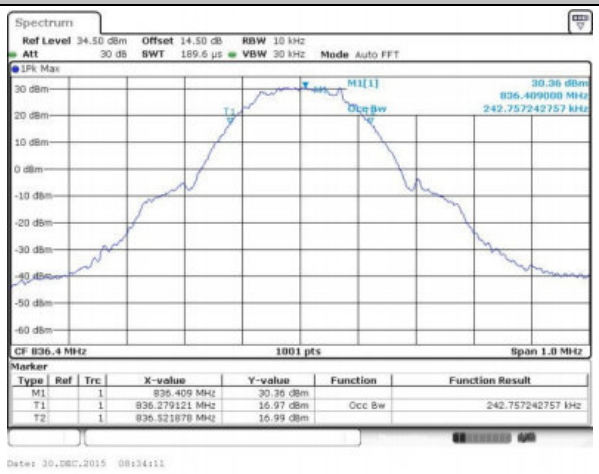
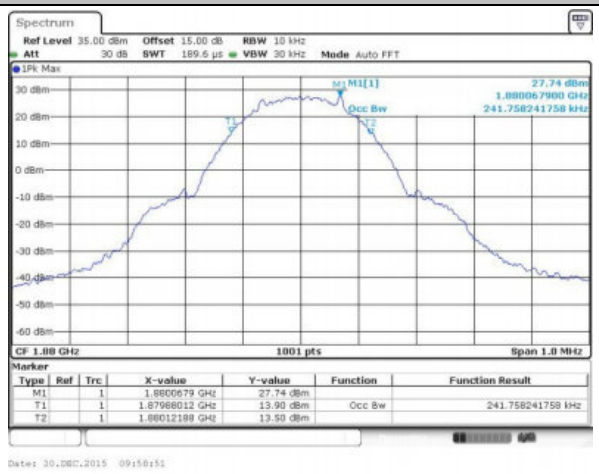
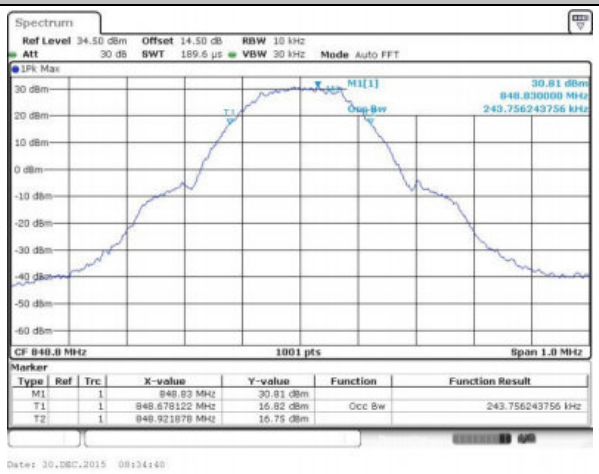
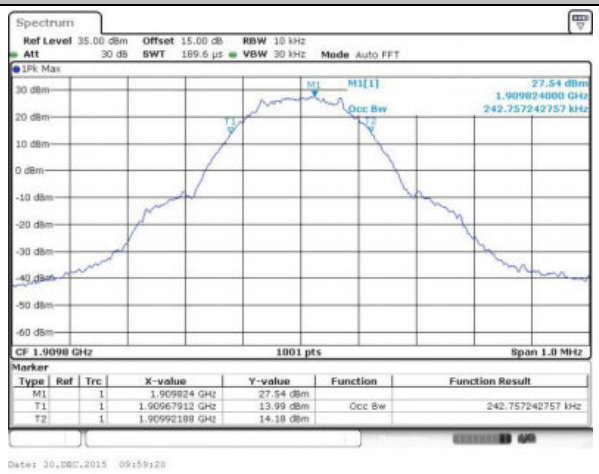
WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

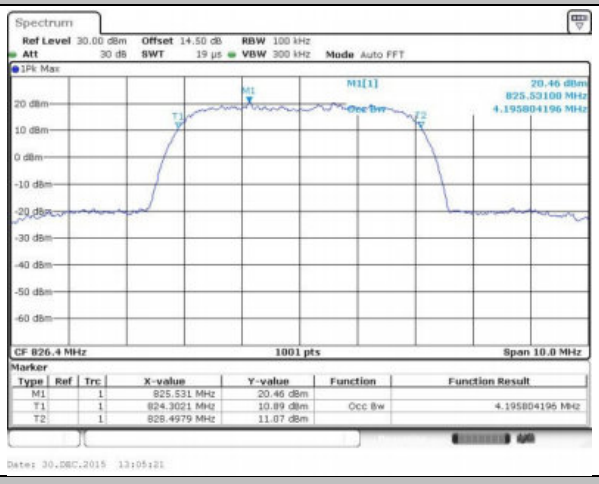
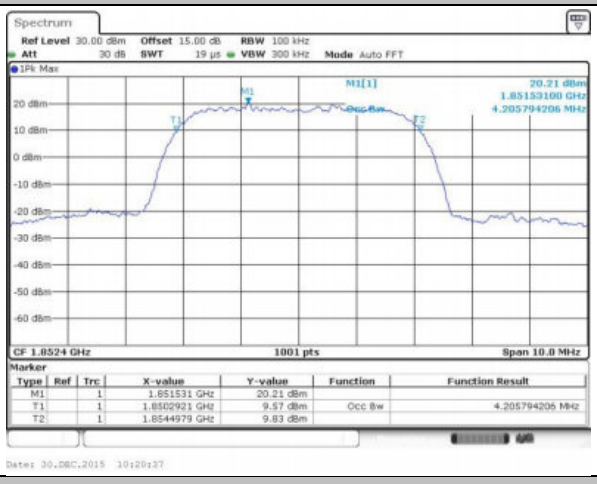
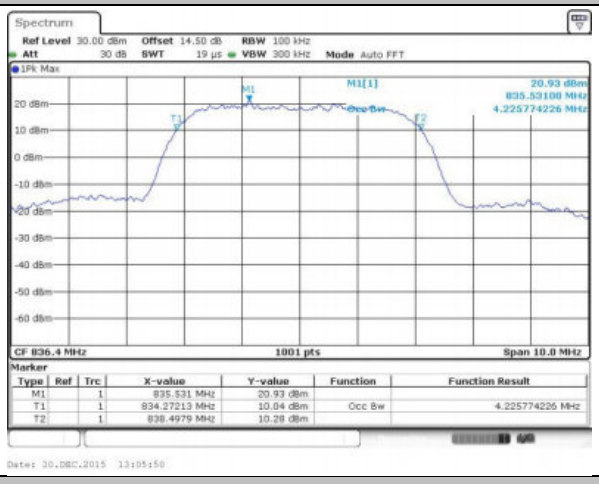
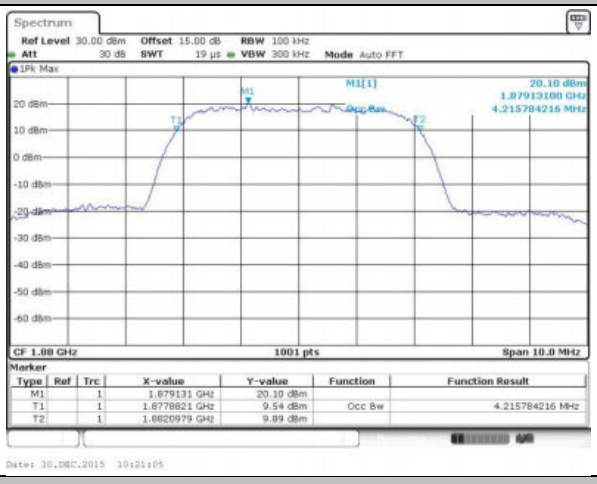
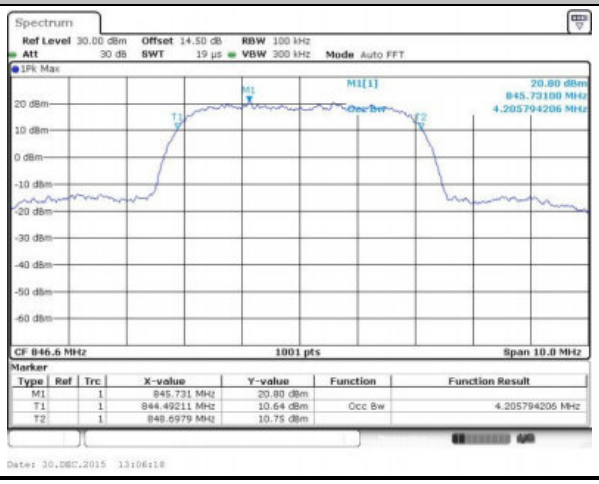
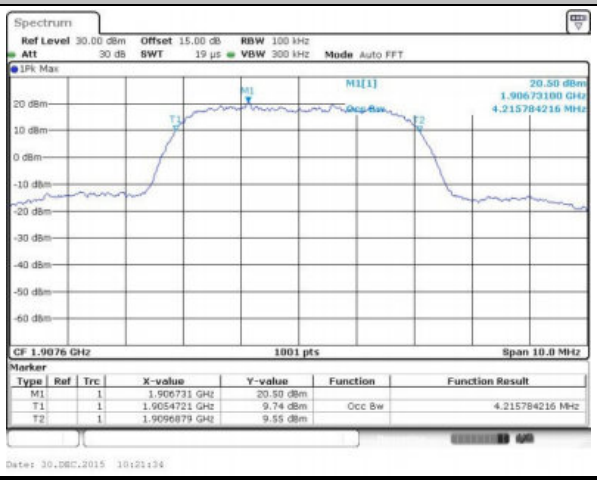
WCDMA Band IV (RMC 12.2Kbps)	
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

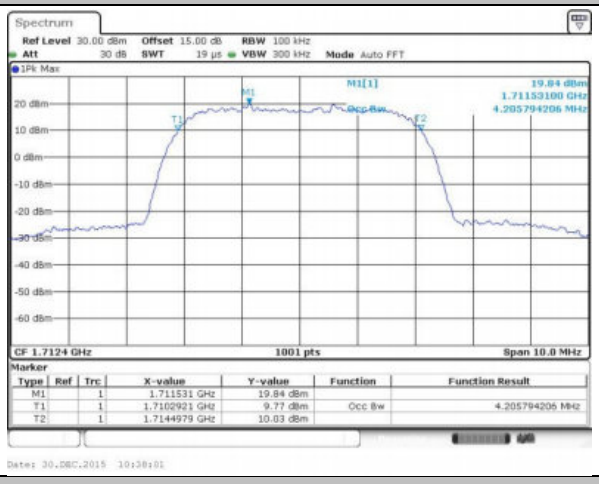
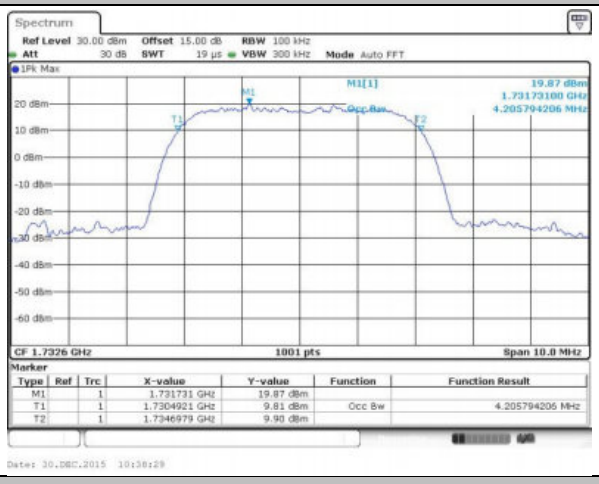
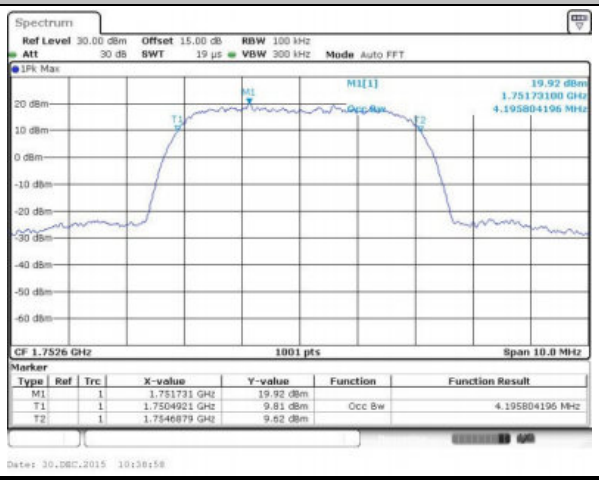
Occupied Bandwidth

Mode	GSM	
Mod.	GSM850	GSM1900
Lowest CH	0.244	0.243
Middle CH	0.243	0.242
Highest CH	0.244	0.243

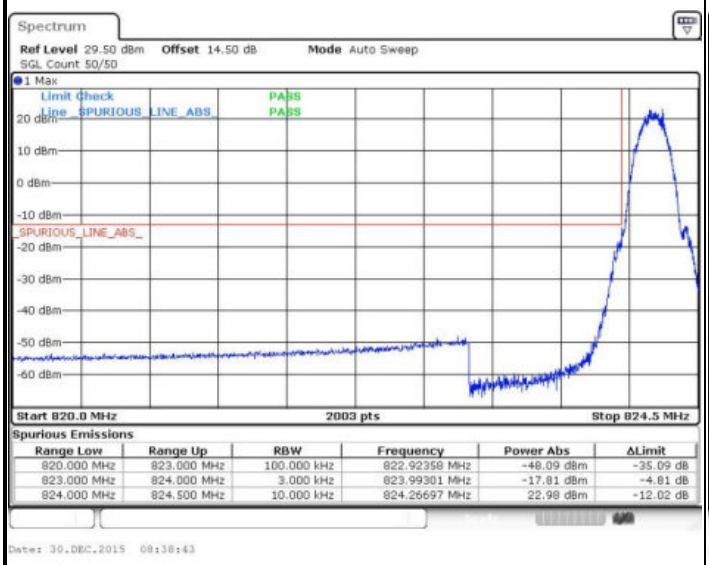
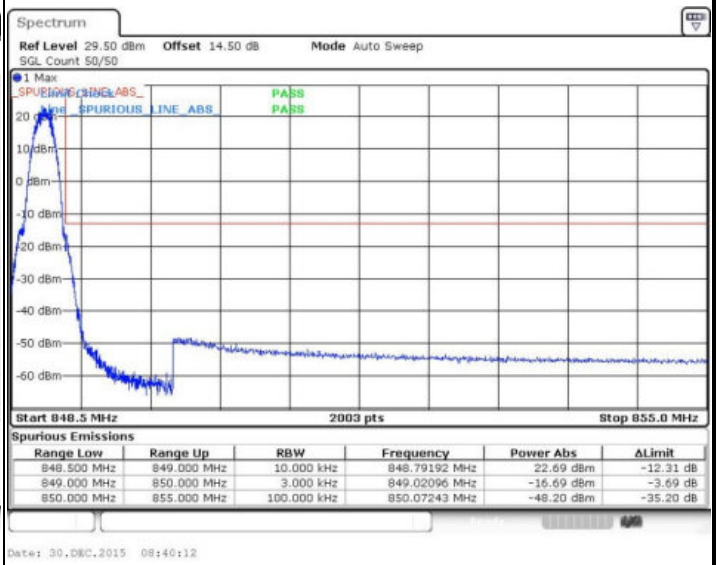
Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.20	4.21	4.21
Middle CH	4.23	4.22	4.21
Highest CH	4.21	4.22	4.20

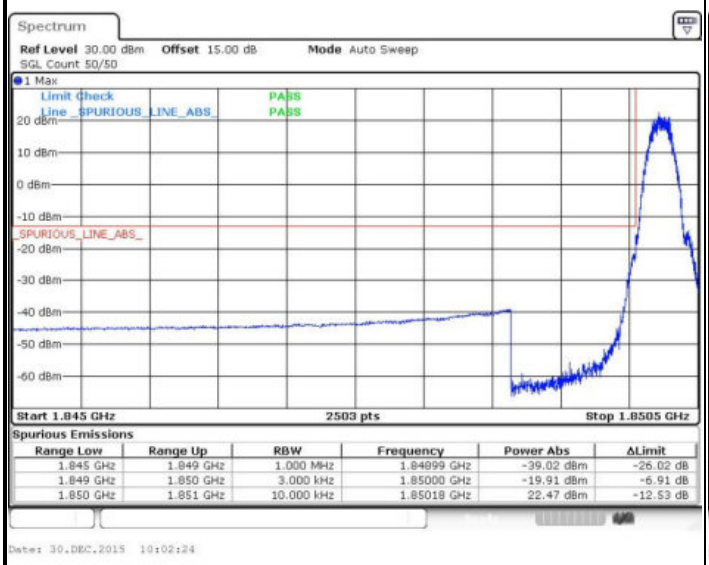
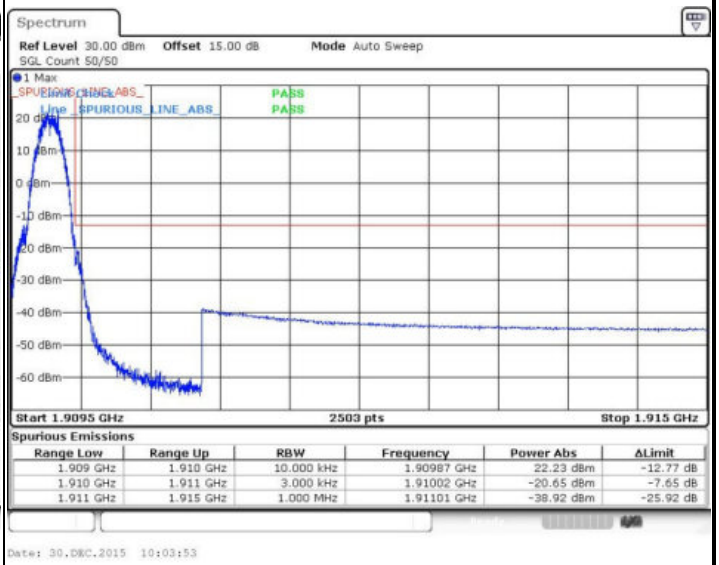
GSM850 (GSM)	GSM1900 (GSM)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

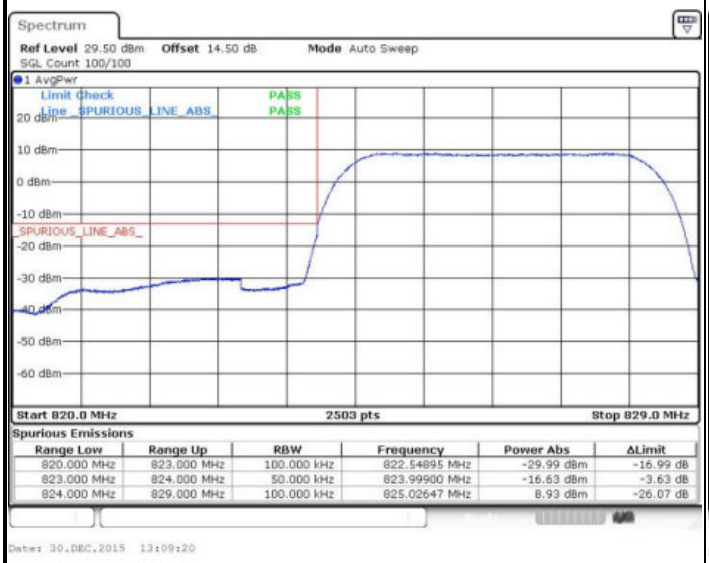
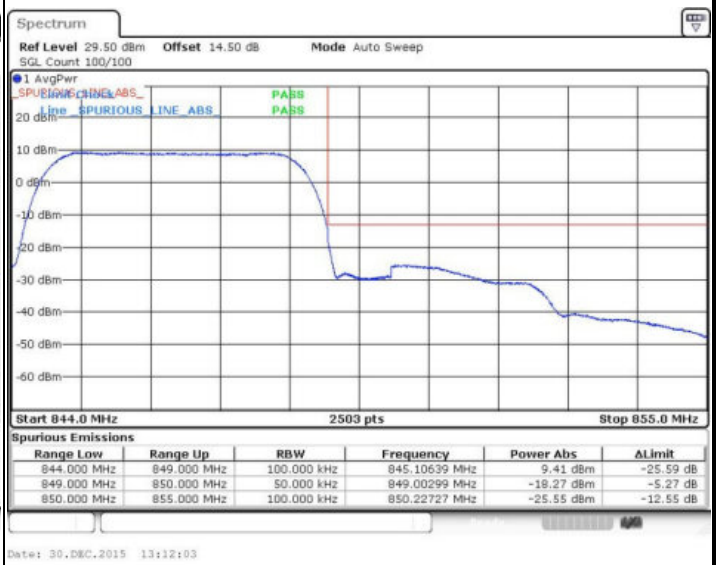
WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

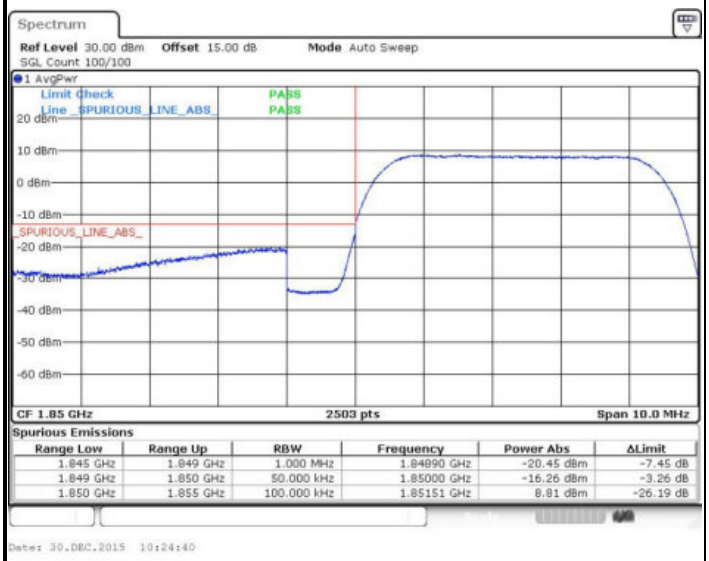
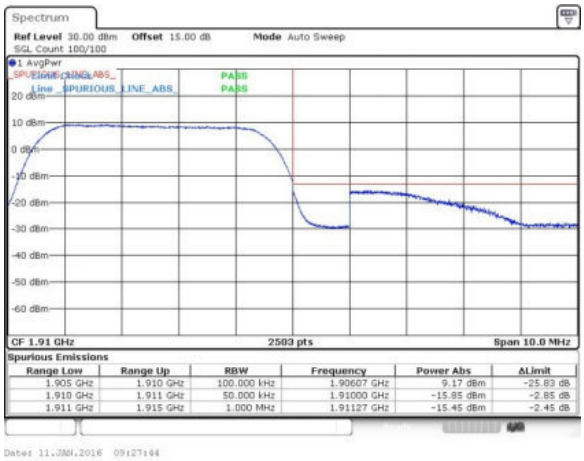
WCDMA Band IV (RMC 12.2Kbps)	
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

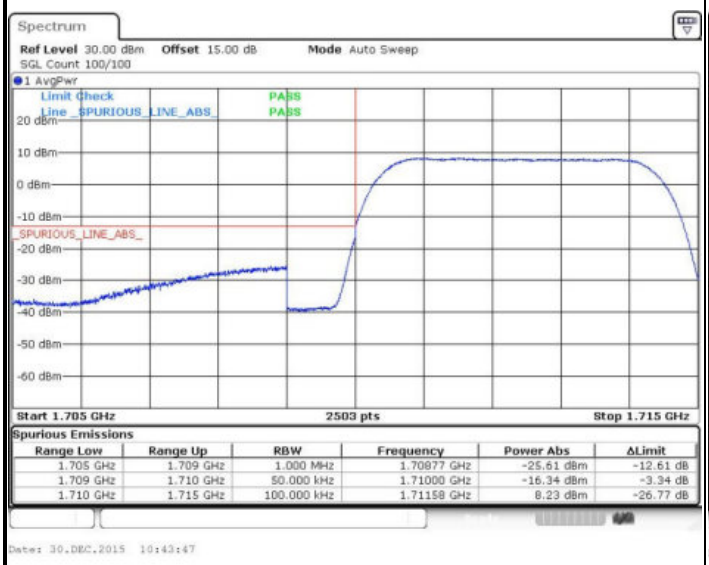
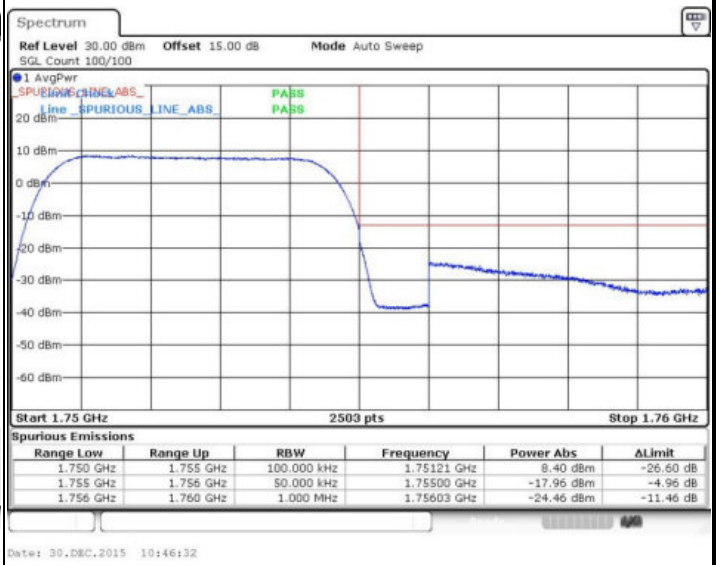
Conducted Band Edge

GSM850 (GSM)	
Lowest Band Edge	**Highest Band Edge**
	

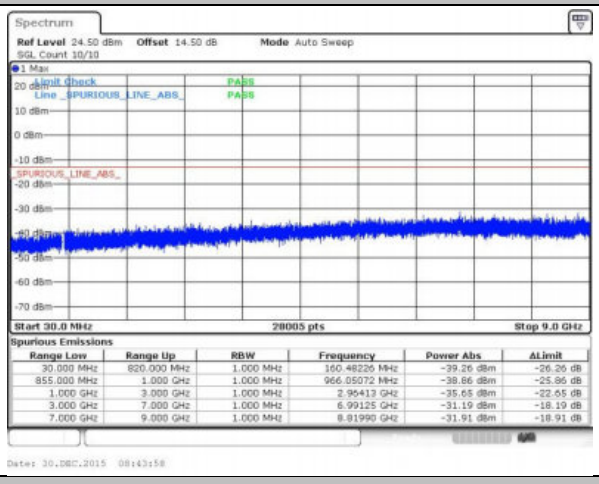
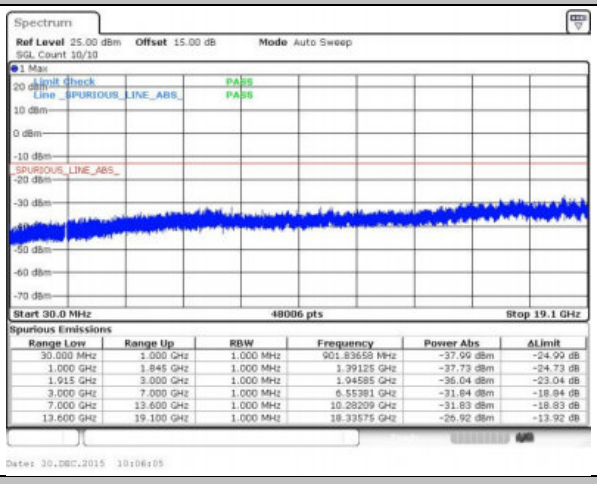
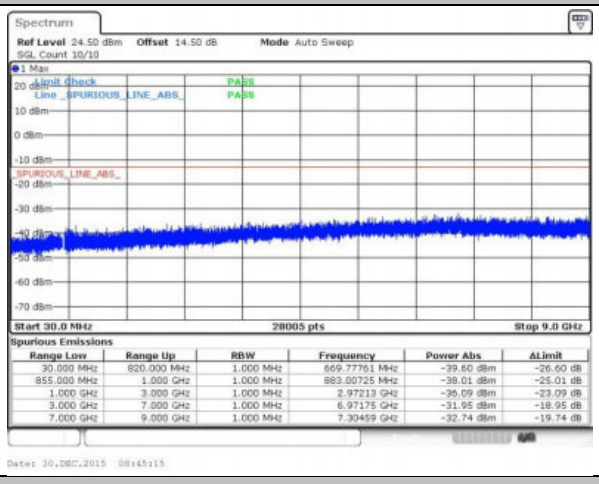
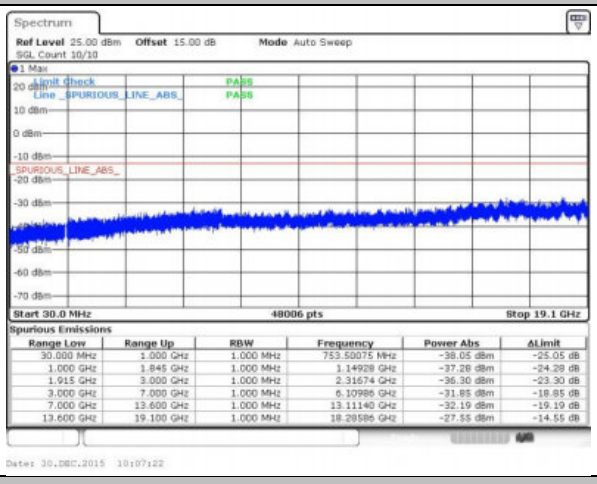
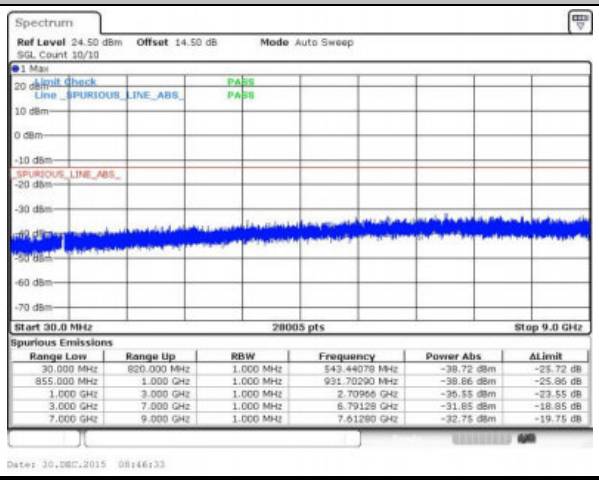
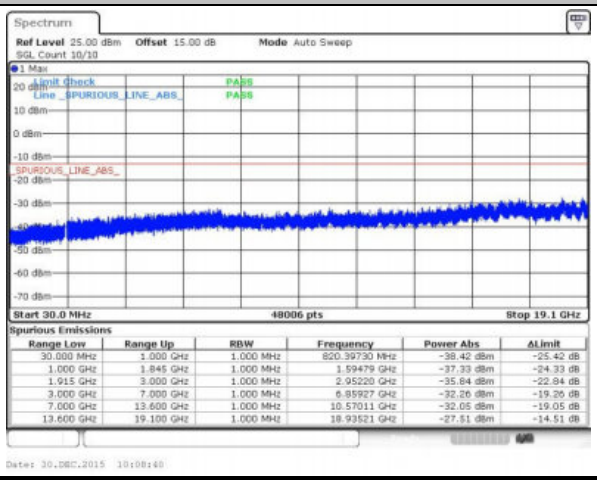
GSM1900 (GSM)	
Lowest Band Edge	**Highest Band Edge**
	

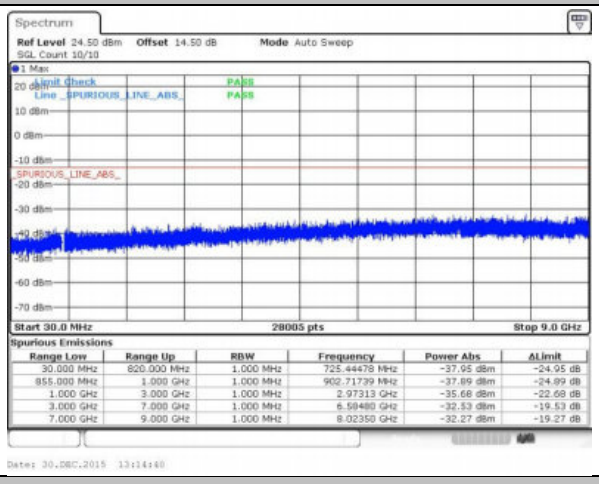
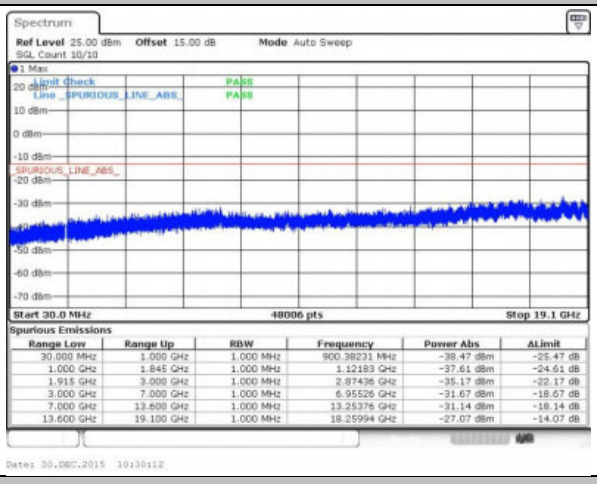
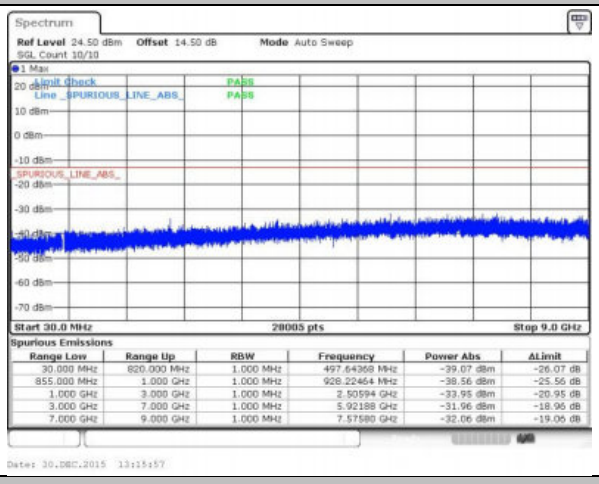
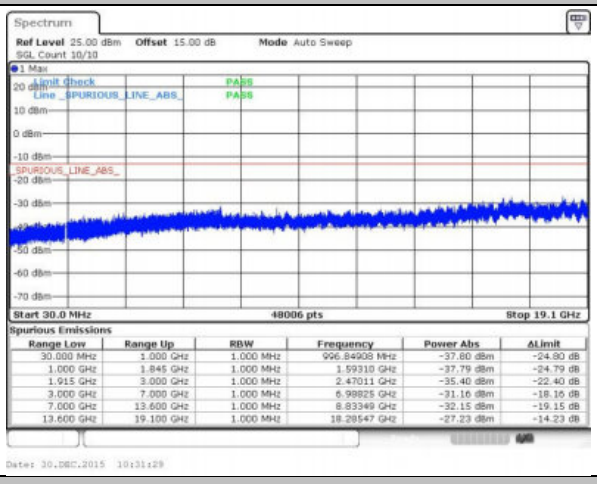
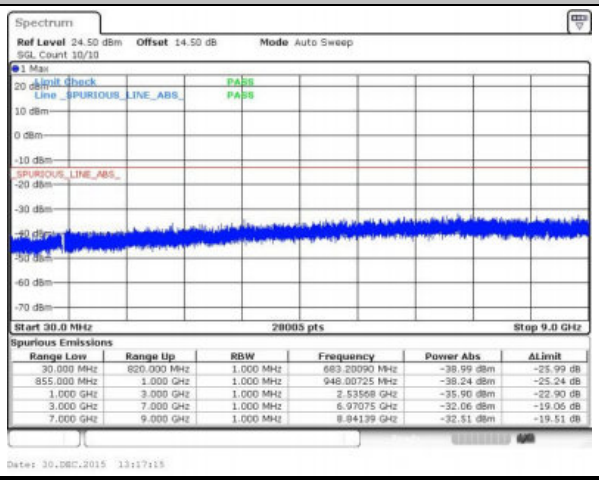
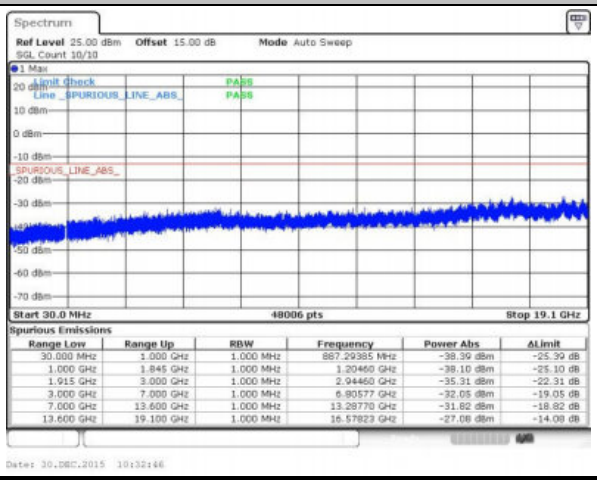
WCDMA Band V (RMC 12.2Kbps)	
Lowest Band Edge	**Highest Band Edge**
	

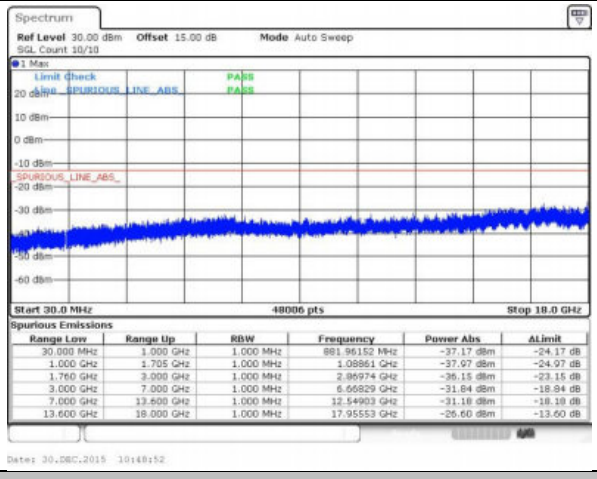
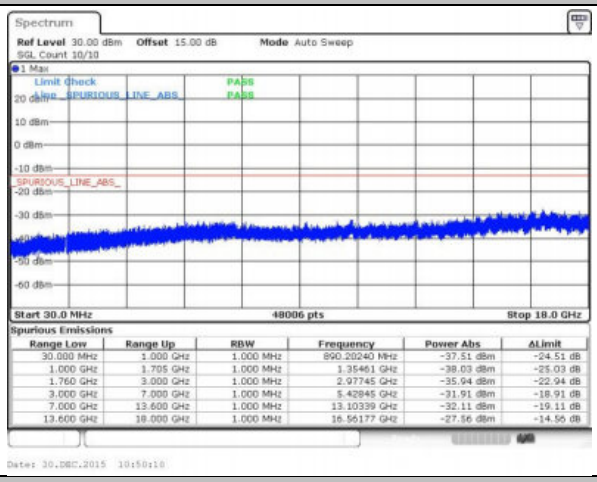
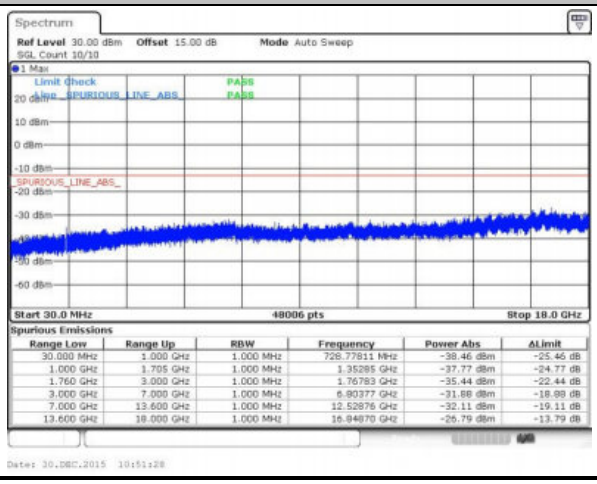
WCDMA Band II (RMC 12.2Kbps)	
Lowest Band Edge	**Highest Band Edge**
	

WCDMA Band IV (RMC 12.2Kbps)	
Lowest Band Edge	**Highest Band Edge**
	

Conducted Spurious Emission

GSM850 (GSM)	GSM1900 (GSM)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

WCDMA Band IV (RMC 12.2Kbps)	
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

Frequency Stability

Test Conditions	Middle Channel	GSM850 (GSM)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0048	PASS
40	Normal Voltage	0.0072	
30	Normal Voltage	0.0036	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0048	
0	Normal Voltage	0.0072	
-10	Normal Voltage	0.0108	
-20	Normal Voltage	0.0132	
-30	Normal Voltage	0.0155	
20	Maximum Voltage	0.0048	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0060	

Note:

1. Normal Voltage = 3.8V. ；Battery End Point (BEP) = 3.6 V.；Maximum Voltage =4.35 V

Test Conditions	Middle Channel	GSM1900 (GSM)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0016	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0000	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0027	
0	Normal Voltage	0.0032	
-10	Normal Voltage	0.0037	
-20	Normal Voltage	0.0059	
-30	Normal Voltage	0.0128	
20	Maximum Voltage	0.0043	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0032	

Note:

2. Normal Voltage = 3.8V. ；Battery End Point (BEP) = 3.6 V.；Maximum Voltage =4.35 V

3. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0060	PASS
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0048	
-10	Normal Voltage	0.0096	
-20	Normal Voltage	0.0120	
-30	Normal Voltage	0.0143	
20	Maximum Voltage	0.0060	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0048	

Note:

1. Normal Voltage = 3.8V. ；Battery End Point (BEP) = 3.6 V.；Maximum Voltage =4.35 V

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0011	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0032	
-10	Normal Voltage	0.0043	
-20	Normal Voltage	0.0064	
-30	Normal Voltage	0.0074	
20	Maximum Voltage	0.0032	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0032	

Note:

2. Normal Voltage = 3.8V. ；Battery End Point (BEP) = 3.6 V.；Maximum Voltage =4.35 V

3. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0058	PASS
40	Normal Voltage	0.0029	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0029	
-20	Normal Voltage	0.0040	
-30	Normal Voltage	0.0052	
20	Maximum Voltage	0.0040	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0017	

Note:

1. Normal Voltage = 3.8V. ；Battery End Point (BEP) = 3.6 V.；Maximum Voltage =4.35 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

Appendix B. Test Results of Radiated Test

ERP/EIRP

Channel	Mode	Horizontal		Vertical	
		ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	GSM850 GSM	28.52	0.7108	16.57	0.0454
Middle		28.67	0.7362	16.99	0.0500
Highest		28.77	0.7542	17.38	0.0547
Lowest	WCDMA Band V RMC 12.2Kbps	20.06	0.1014	7.74	0.0059
Middle		19.90	0.0976	7.58	0.0057
Highest		20.12	0.1029	7.76	0.0060
Limit	ERP < 7W	Result		PASS	

Channel	Mode	Horizontal		Vertical	
		EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	GSM1900 GSM	30.42	1.1014	30.63	1.1560
Middle		31.05	1.2725	31.09	1.2840
Highest		31.74	1.4924	31.78	1.5049
Lowest	WCDMA Band II RMC 12.2Kbps	23.85	0.2424	24.00	0.2512
Middle		24.11	0.2573	24.24	0.2656
Highest		25.00	0.3160	24.87	0.3066
Limit	EIRP < 2W	Result		PASS	

Channel	Mode	Horizontal		Vertical	
		EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	WCDMA Band IV RMC 12.2Kbps	21.17	0.1309	20.14	0.1033
Middle		21.64	0.1458	20.26	0.1062
Highest		21.77	0.1502	20.70	0.1175
Limit	EIRP < 1W	Result		PASS	

Radiated Spurious Emission

GSM850 (GSM)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-52.13	-13	-39.13	-54.31	-54.02	1.86	5.90	H
	2474	-53.56	-13	-40.56	-62.59	-55.90	2.31	6.80	H
	3297	-53.92	-13	-40.92	-66.55	-56.32	2.85	7.40	H
	1648	-49.43	-13	-36.43	-52.04	-51.32	1.86	5.90	V
	2474	-51.67	-13	-38.67	-62.64	-54.01	2.31	6.80	V
	3297	-52.50	-13	-39.50	-66.48	-54.90	2.85	7.40	V
Middle	1674	-48.41	-13	-35.41	-51.67	-50.30	1.86	5.90	H
	2509	-53.26	-13	-40.26	-62.29	-55.60	2.31	6.80	H
	3345	-53.62	-13	-40.62	-66.25	-56.02	2.85	7.40	H
	1674	-45.50	-13	-32.50	-50.01	-47.39	1.86	5.90	V
	2509	-51.53	-13	-38.53	-62.50	-53.87	2.31	6.80	V
	3345	-52.41	-13	-39.41	-66.39	-54.81	2.85	7.40	V
Highest	1698	-54.59	-13	-41.59	-56.77	-56.48	1.86	5.90	H
	2548	-53.84	-13	-40.84	-62.87	-56.18	2.31	6.80	H
	3396	-54.17	-13	-41.17	-66.80	-56.57	2.85	7.40	H
	1698	-53.86	-13	-40.86	-54.56	-55.75	1.86	5.90	V
	2548	-51.18	-13	-38.18	-62.15	-53.52	2.31	6.80	V
	3396	-52.74	-13	-39.74	-66.72	-55.14	2.85	7.40	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

GSM1900 (GSM)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3699	-50.43	-13	-37.43	-64.63	-55.03	3	7.60	H
	5550	-47.60	-13	-34.60	-61.39	-53.86	3.84	10.10	H
	7401	-42.52	-13	-29.52	-62.30	-50.02	4.43	11.93	H
	3699	-52.76	-13	-39.76	-65.25	-57.36	3	7.60	V
	5550	-48.04	-13	-35.04	-60.45	-54.30	3.84	10.10	V
	7401	-42.65	-13	-29.65	-60.44	-50.15	4.43	11.93	V
Middle	3759	-51.47	-13	-38.47	-65.67	-56.07	3	7.60	H
	5640	-46.76	-13	-33.76	-60.55	-53.02	3.84	10.10	H
	7620	-43.04	-13	-30.04	-62.82	-50.54	4.43	11.93	H
	3759	-53.57	-13	-40.57	-66.06	-58.17	3	7.60	V
	5640	-48.49	-13	-35.49	-60.9	-54.75	3.84	10.10	V
	7521	-45.43	-13	-32.43	-63.22	-52.93	4.43	11.93	V
Highest	3819	-51.30	-13	-38.30	-65.50	-55.90	3	7.60	H
	5729	-47.05	-13	-34.05	-60.84	-53.31	3.84	10.10	H
	7638	-42.38	-13	-29.38	-62.16	-49.88	4.43	11.93	H
	3819	-52.73	-13	-39.73	-65.22	-57.33	3	7.60	V
	5729	-48.24	-13	-35.24	-60.65	-54.50	3.84	10.10	V
	7638	-45.19	-13	-32.19	-62.98	-52.69	4.43	11.93	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

WCDMA Band V(RMC 12.2Kbps)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1652	-55.40	-13	-42.40	-57.58	-57.29	1.86	5.90	H
	2479	-52.90	-13	-39.90	-61.93	-55.24	2.31	6.80	H
	3306	-54.91	-13	-41.91	-67.54	-57.31	2.85	7.40	H
	1652	-59.03	-13	-46.03	-57.89	-60.92	1.86	5.90	V
	2479	-50.93	-13	-37.93	-61.90	-53.27	2.31	6.80	V
	3306	-51.94	-13	-38.94	-65.92	-54.34	2.85	7.40	V
Middle	1672	-54.49	-13	-41.49	-56.67	-56.38	1.86	5.90	H
	2509	-52.26	-13	-39.26	-61.29	-54.60	2.31	6.80	H
	3345	-53.43	-13	-40.43	-66.06	-55.83	2.85	7.40	H
	1672	-58.23	-13	-45.23	-57.09	-60.12	1.86	5.90	V
	2509	-50.62	-13	-37.62	-61.59	-52.96	2.31	6.80	V
	3345	-52.21	-13	-39.21	-66.19	-54.61	2.85	7.40	V
Highest	1692	-55.50	-13	-42.50	-57.68	-57.39	1.86	5.90	H
	2539	-53.32	-13	-40.32	-62.35	-55.66	2.31	6.80	H
	3387	-52.17	-13	-39.17	-64.80	-54.57	2.85	7.40	H
	1692	-57.42	-13	-44.42	-56.28	-59.31	1.86	5.90	V
	2539	-49.84	-13	-36.84	-60.81	-52.18	2.31	6.80	V
	3387	-52.01	-13	-39.01	-65.99	-54.41	2.85	7.40	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

WCDMA Band II(RMC 12.2Kbps)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3705	-50.09	-13	-37.09	-64.29	-54.69	3	7.60	H
	5553	-43.38	-13	-30.38	-57.17	-49.64	3.84	10.10	H
	7410	-42.15	-13	-29.15	-61.93	-49.65	4.43	11.93	H
	3705	-52.33	-13	-39.33	-64.82	-56.93	3	7.60	V
	5557	-47.48	-13	-34.48	-59.89	-53.74	3.84	10.10	V
	7410	-43.22	-13	-30.22	-61.01	-50.72	4.43	11.93	V
Middle	3759	-50.75	-13	-37.75	-64.95	-55.35	3	7.60	H
	5640	-44.05	-13	-31.05	-57.84	-50.31	3.84	10.10	H
	7521	-43.07	-13	-30.07	-62.85	-50.57	4.43	11.93	H
	3759	-52.74	-13	-39.74	-65.23	-57.34	3	7.60	V
	5640	-48.42	-13	-35.42	-60.83	-54.68	3.84	10.10	V
	7521	-45.46	-13	-32.46	-63.25	-52.96	4.43	11.93	V
Highest	3816	-50.95	-13	-37.95	-65.15	-55.55	3	7.60	H
	5723	-44.93	-13	-31.93	-58.72	-51.19	3.84	10.10	H
	7629	-44.08	-13	-31.08	-63.86	-51.58	4.43	11.93	H
	3816	-52.95	-13	-39.95	-65.44	-57.55	3	7.60	V
	5724	-45.94	-13	-32.94	-58.35	-52.20	3.84	10.10	V
	7629	-45.67	-13	-32.67	-63.46	-53.17	4.43	11.93	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

WCDMA Band IV(RMC 12.2Kbps)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3424	-53.86	-13	-40.86	-67.99	-58.23	3.12	7.49	H
	5142	-46.14	-13	-33.14	-59.29	-51.94	3.65	9.45	H
	6849	-46.34	-13	-33.34	-63.20	-53.54	4.15	11.35	H
	3423	-53.40	-13	-40.40	-66.22	-57.77	3.12	7.49	V
	5137	-47.40	-13	-34.40	-61.41	-53.20	3.65	9.45	V
	6849	-48.80	-13	-35.80	-64.05	-56.00	4.15	11.35	V
Middle	3465	-53.43	-13	-40.43	-67.56	-57.80	3.12	7.49	H
	5199	-47.10	-13	-34.10	-60.25	-52.90	3.65	9.45	H
	6930	-45.66	-13	-32.66	-62.52	-52.86	4.15	11.35	H
	3465	-53.68	-13	-40.68	-66.5	-58.05	3.12	7.49	V
	5197	-49.35	-13	-36.35	-63.36	-55.15	3.65	9.45	V
	6930	-47.95	-13	-34.95	-63.2	-55.15	4.15	11.35	V
Highest	3505	-53.68	-13	-40.68	-67.81	-58.05	3.12	7.49	H
	5262	-44.23	-13	-31.23	-57.38	-50.03	3.65	9.45	H
	7011	-45.85	-13	-32.85	-62.71	-53.05	4.15	11.35	H
	3504	-53.80	-13	-40.80	-66.62	-58.17	3.12	7.49	V
	5257	-48.36	-13	-35.36	-62.37	-54.16	3.65	9.45	V
	7011	-46.75	-13	-33.75	-62	-53.95	4.15	11.35	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.