FCC RF Test Report

APPLICANT	:	Gionee Communication Equipment Co., Ltd.
EQUIPMENT	:	Mobile phone
BRAND NAME	:	GIONEE
MODEL NAME	:	S6
FCC ID	:	2AFWFS6
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 Jan. 06, 2016 and testing was completed on Feb. 15, 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.

Andy Yeh

Prepared by: Andy Yeh / Manager

Jones Tsai

Approved by: Jones Tsai / Manager

Testing Laboratory
2353

SPORTON INTERNATIONAL (SHENZHEN) INC.

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

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG610605A	Rev. 01	Initial issue of report	Feb. 17, 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 22H	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 21.90 dB at 5640.000 MHz

1 General Description

1.1 Applicant

Gionee Communication Equipment Co., Ltd.
21/F, Times Technology Building, No. 7028, Shennan Avenue, Futian District, Shenzhen, China

1.2 Manufacturer

Gionee Communication Equipment Co., Ltd.
21/F, Times Technology Building, No. 7028, Shennan Avenue, Futian District, Shenzhen, China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile phone
Brand Name	GIONEE
Model Name	S6
FCC ID	2AFWFS6
EUT supports Radios application	GSM/GPRS/EGPRS/ WCDMA/HSPA/HSPA+/DC-HSDPA/LTE WLAN2.4GHz 802.11b/g/n HT20/HT40 Bluetooth v3.0+EDR Bluetooth v4.0 LE
IMEI Code	Conducted:354147042000043/354147042035049 Radiation:N/A ERP/EIRP: N/A
HW Version	S6_Mainboard_P3.0
SW Version	S6_0303_V5520
EUT Stage	Pre-Production

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. After pre-scan two SIM cards power, we found test result of the SIM1 was the worse, so we chose dual SIM1 card to perform all tests.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	**GSM/GPRS/EDGE:** 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/EDGE:** 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/EDGE:** 850: 34.56 dBm 1900: 31.49 dBm **WCDMA:** Band V: 24.05 dBm Band II: 22.83 dBm Band IV: 24.39 dBm
Antenna Type	Fixed Internal Antenna
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK WCDMA : QPSK (Uplink) HSDPA/DC-HSDPA : QPSK (Uplink) HSUPA : QPSK (Uplink) HSPA+ : 16QAM (Uplink) DC-HSDPA : 64QAM

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 22H	GSM850 GSM	GMSK	0.4605	0.0179 ppm	248KGXW
Part 22H	GSM850 EDGE class 8	8PSK	0.1023	0.0239 ppm	249KG7W
Part 22H	WCDMA Band V RMC 12.2Kbps	QPSK	0.0526	0.0287 ppm	4M22F9W
Part 24E	GSM1900 GSM	GMSK	0.6988	0.0059 ppm	246KGXW
Part 24E	GSM1900 EDGE class 8	8PSK	0.3008	0.0080 ppm	248KG7W
Part 24E	WCDMA Band II RMC 12.2Kbps	QPSK	0.1504	0.0090 ppm	4M22F9W
Part 27L	WCDMA Band IV RMC 12.2Kbps	QPSK	0.2257	0.0115 ppm	4M22F9W

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.**
	03CH03-KS	306251/4086E

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 10th harmonic for GSM850 and WCDMA Band V.
2. 30 MHz to 10th harmonic for WCDMA Band IV.
3. 30 MHz to 10th harmonic for GSM1900 and WCDMA Band II.

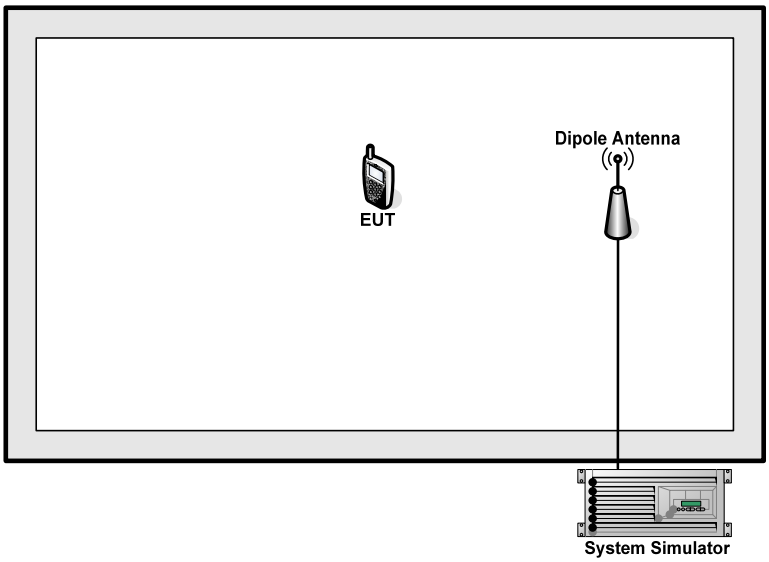
All modes and data rates and positions were investigated.

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

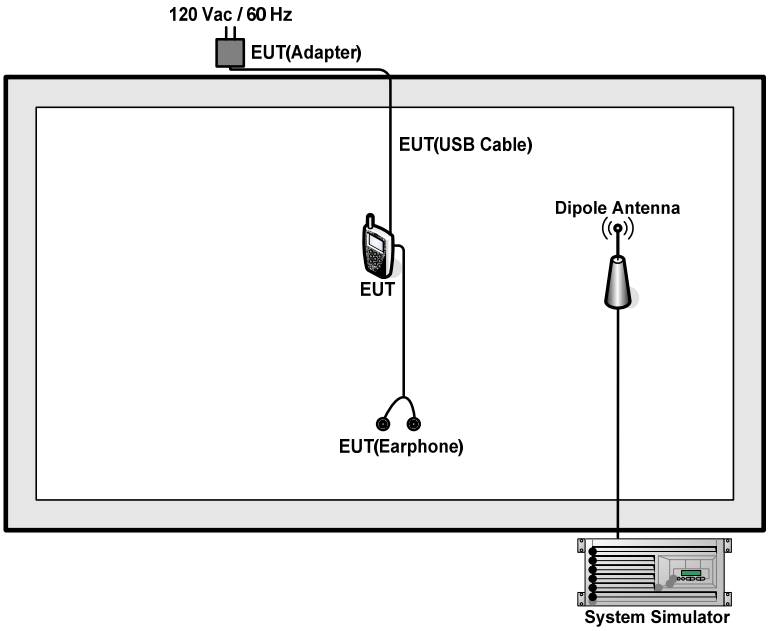
Test Modes		
Band	**Radiated TCs**	**Conducted TCs**
GSM 850	■ GSM Link ■ EDGE class 8 Link	■ GSM Link ■ EDGE class 8 Link
GSM 1900	■ GSM Link ■ EDGE class 8 Link	■ GSM Link ■ EDGE class 8 Link
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link
WCDMA Band IV	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link

2.2 Connection Diagram of Test System

For 22H.24E



For 27L



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)

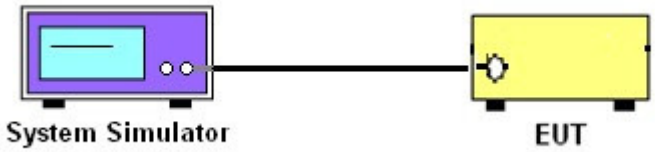
3 Conducted Test Result

3.1 Measuring Instruments

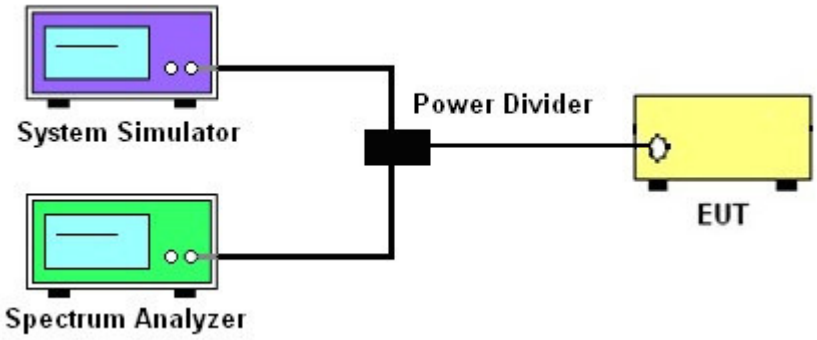
See list of measuring instruments of this test report.

3.2 Test Setup

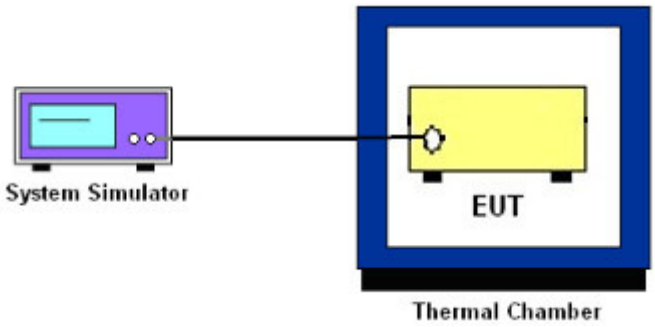
3.2.1 Conducted Output Power



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.

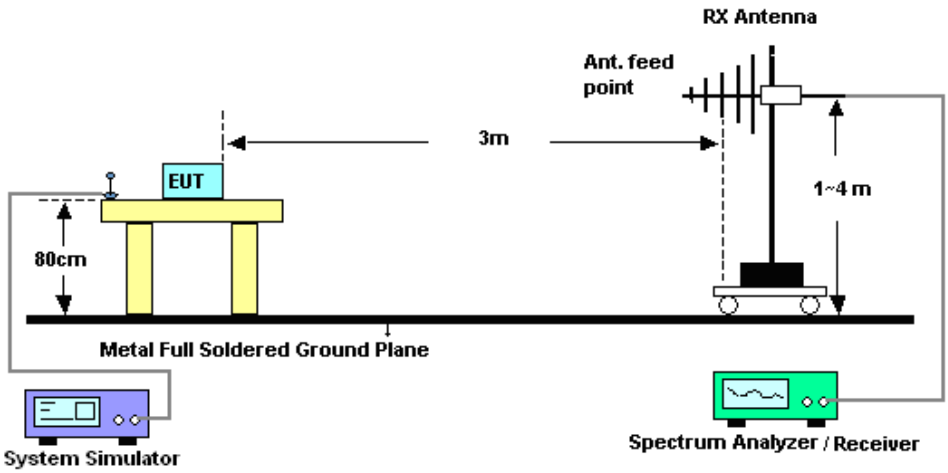
4 Radiated Test Items

4.1 Measuring Instruments

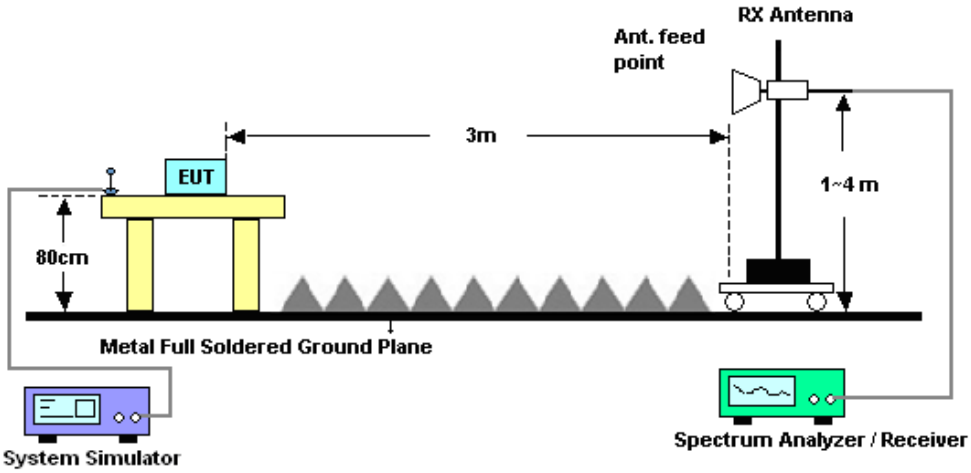
See list of measuring instruments of this test report.

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	FSP30	101400	9kHz~30GHz	Jan. 28, 2015	Jan. 08, 2016~ Jan. 21, 2016	Jan. 27, 2016	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Aug. 07, 2015	Jan. 08, 2016~ Jan. 21, 2016	Aug. 06, 2016	Conducted (TH01-SZ)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44GHz	Jun. 05, 2015	Feb. 15, 2016	Jun. 04, 2016	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	23182	25MHz-2GHz	Jan. 16, 2016	Feb. 15, 2016	Jan. 15, 2017	Radiation (03CH03-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1356	1GHz~18GHz	Jun. 25, 2015	Feb. 15, 2016	Jun. 24, 2016	Radiation (03CH03-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz ~40GHz	Mar. 03, 2015	Feb. 15, 2016	Mar. 02, 2016	Radiation (03CH03-KS)
Amplifier	Burgeon	BPA-530	102212	0.01MHz-3000MHz	Aug. 10, 2015	Feb. 15, 2016	Aug. 09, 2016	Radiation (03CH03-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1	1889560	1GHz-18GHz	Aug. 10, 2015	Feb. 15, 2016	Aug. 09, 2016	Radiation (03CH03-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Oct. 24, 2015	Feb. 15, 2016	Oct. 23, 2016	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Feb. 15, 2016	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Feb. 15, 2016	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Feb. 15, 2016	NCR	Radiation (03CH03-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))	**4.5 dB**

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

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	34.53	34.54	34.56	31.47	31.46	31.49
GPRS class 8	34.49	34.50	34.51	31.46	31.45	31.47
GPRS class 10	34.31	34.33	34.34	31.14	31.12	31.15
GPRS class 11	33.10	33.14	33.17	29.77	29.75	30.21
GPRS class 12	32.20	32.27	32.28	29.53	29.10	29.54
EGPRS class 8	27.20	27.06	27.03	26.06	26.11	26.15
EGPRS class 10	26.19	26.08	26.00	24.98	25.02	25.13
EGPRS class 11	24.14	24.07	24.00	22.78	22.90	23.03
EGPRS class 12	23.06	22.96	22.95	21.52	21.58	21.70

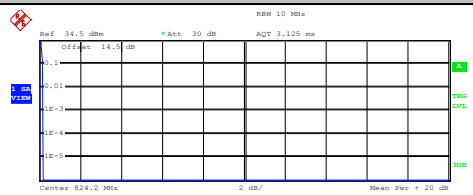
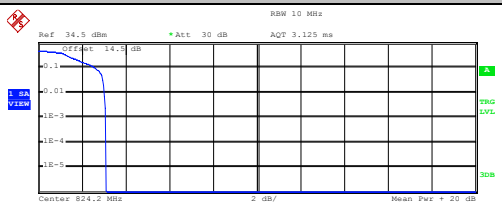
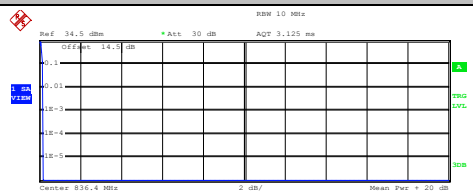
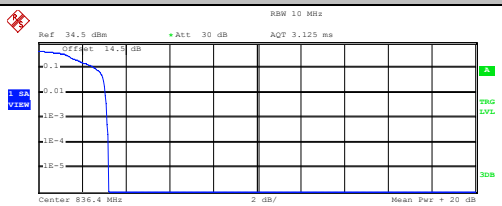
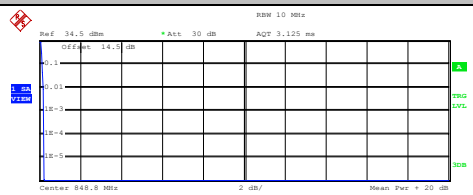
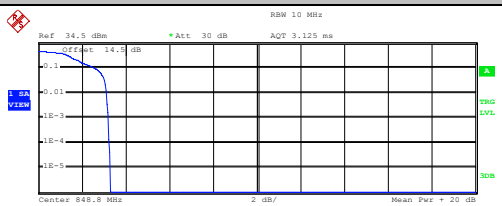
Conducted Power (*Unit: dBm)									
Band	WCDMA Band V			WCDMA Band II			WCDMA Band IV		
Channel	4132	4182	4233	9262	9400	9538	1312	1413	1513
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6
AMR 12.2Kbps	23.82	24.00	24.02	22.56	22.50	22.80	24.20	24.30	24.30
RMC 12.2Kbps	23.83	24.01	**24.05**	22.60	22.70	**22.83**	24.24	**24.39**	24.31
HSDPA Subtest-1	22.68	22.63	22.78	22.32	22.40	22.29	23.29	23.51	23.56
HSDPA Subtest-2	22.74	22.66	22.79	22.34	22.41	22.31	23.32	23.52	23.60
HSDPA Subtest-3	22.25	22.18	22.33	21.90	21.98	21.86	22.89	23.08	23.13
HSDPA Subtest-4	22.24	22.19	22.32	21.87	21.94	21.84	22.87	23.05	23.12
DC-HSDPA Subtest-1	22.45	22.38	22.53	22.08	22.18	22.40	22.99	22.81	22.83
DC-HSDPA Subtest-2	22.44	22.39	22.52	22.09	22.19	22.43	22.99	22.85	22.87
DC-HSDPA Subtest-3	22.45	22.38	22.53	21.63	21.70	21.91	22.53	22.30	22.36
DC-HSDPA Subtest-4	22.44	22.39	22.52	21.63	21.72	21.92	22.51	22.33	22.35
HSUPA Subtest-1	20.79	20.69	20.79	20.39	20.46	20.39	21.47	21.66	21.62
HSUPA Subtest-2	20.76	20.64	20.75	20.42	20.45	20.37	21.38	21.56	21.53
HSUPA Subtest-3	21.75	21.69	21.75	21.44	21.46	21.37	22.40	22.56	22.53
HSUPA Subtest-4	20.22	20.14	20.30	19.87	19.90	19.84	20.94	21.13	21.06
HSUPA Subtest-5	22.20	22.10	22.20	22.40	22.40	22.30	23.30	23.50	23.50
HSPA+ (16QAM) Subtest-1	20.91	20.85	20.89	19.91	19.94	20.14	21.30	21.13	21.14

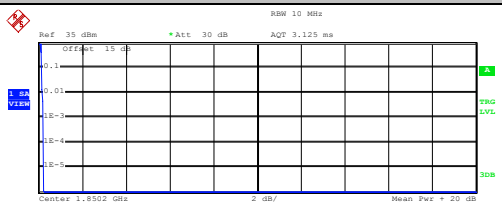
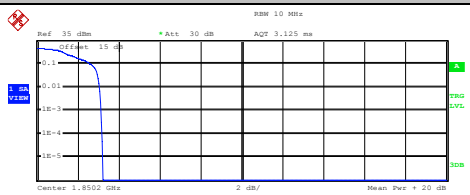
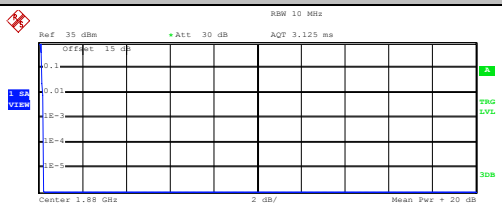
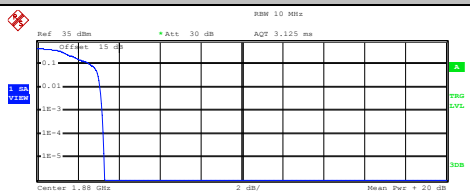
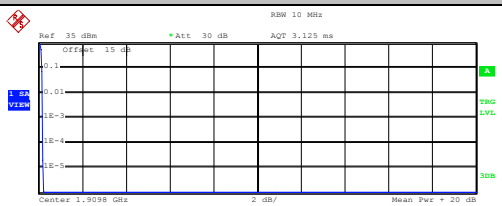
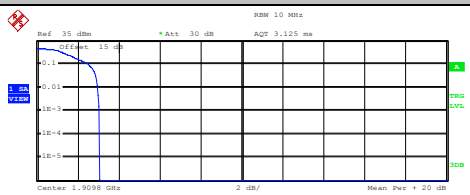
A1. GSM

Peak-to-Average Ratio

Mode	GSM850		Limit: 13dB
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.20	3.12	PASS
Middle CH	0.20	3.16	
Highest CH	0.24	3.20	

Mode	GSM1900		Limit: 13dB
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.24	3.16	PASS
Middle CH	0.24	3.20	
Highest CH	0.20	3.04	

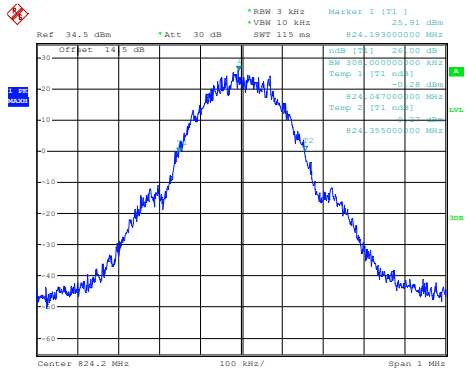
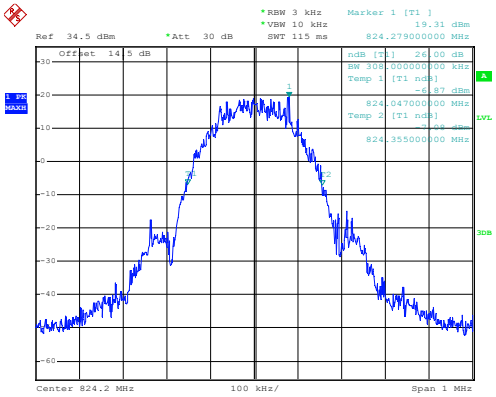
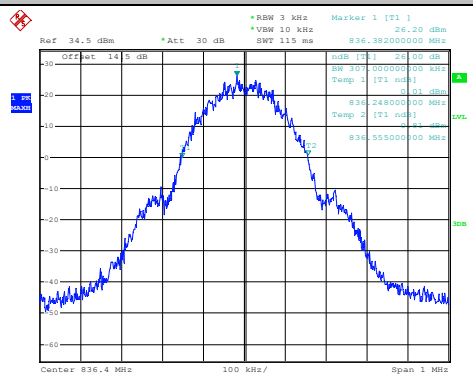
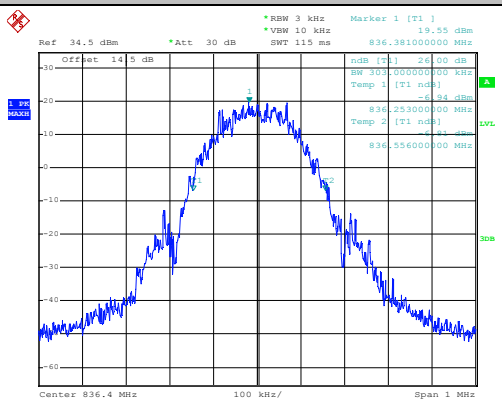
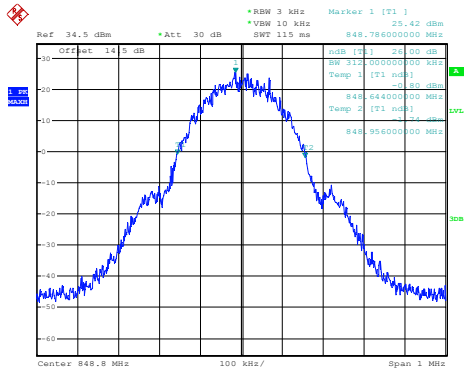
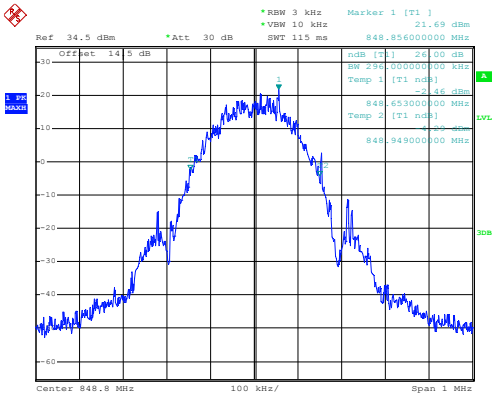
GSM850 (GSM)	GSM850 (EDGE class 8)
Lowest Channel	**Lowest Channel**
 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 32.60 dBm Peak 32.78 dBm Crest 0.18 dB 10 % 0.16 dB 1 % 0.20 dB .1 % 0.20 dB .01 % 0.20 dB Date: 8.JAN.2016 23:36:31	 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 25.58 dBm Peak 28.69 dBm Crest 3.11 dB 10 % 2.60 dB 1 % 3.04 dB .1 % 3.12 dB .01 % 3.12 dB Date: 8.JAN.2016 23:20:16
Middle Channel	**Middle Channel**
 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 32.52 dBm Peak 32.71 dBm Crest 0.19 dB 10 % 0.16 dB 1 % 0.20 dB .1 % 0.20 dB .01 % 0.20 dB Date: 8.JAN.2016 23:36:52	 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 25.47 dBm Peak 28.69 dBm Crest 3.22 dB 10 % 2.60 dB 1 % 3.08 dB .1 % 3.16 dB .01 % 3.24 dB Date: 8.JAN.2016 23:20:43
Highest Channel	**Highest Channel**
 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 32.43 dBm Peak 32.64 dBm Crest 0.21 dB 10 % 0.16 dB 1 % 0.20 dB .1 % 0.24 dB .01 % 0.24 dB Date: 8.JAN.2016 23:37:04	 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 25.32 dBm Peak 28.62 dBm Crest 3.29 dB 10 % 2.60 dB 1 % 3.12 dB .1 % 3.20 dB .01 % 3.24 dB Date: 8.JAN.2016 23:21:15

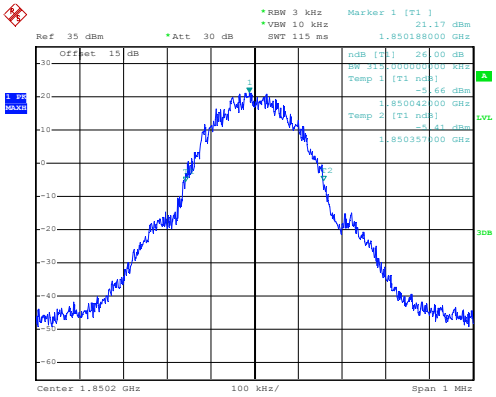
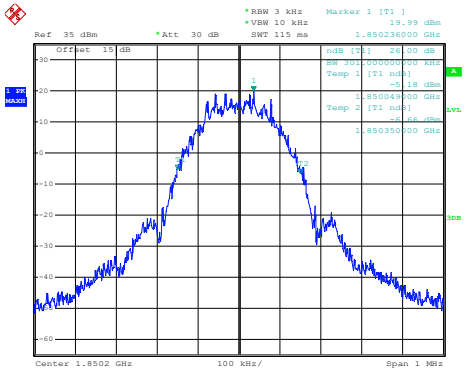
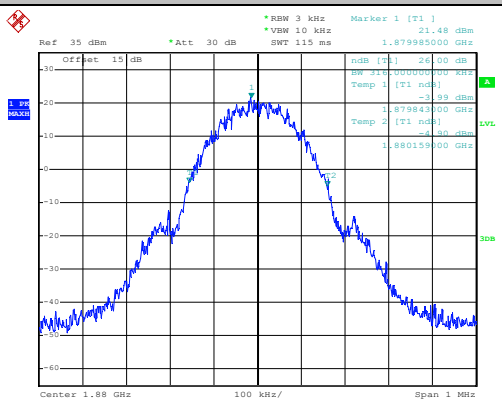
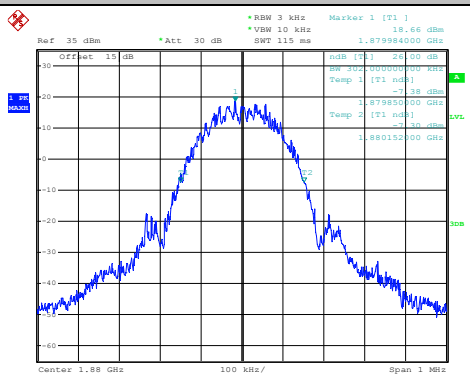
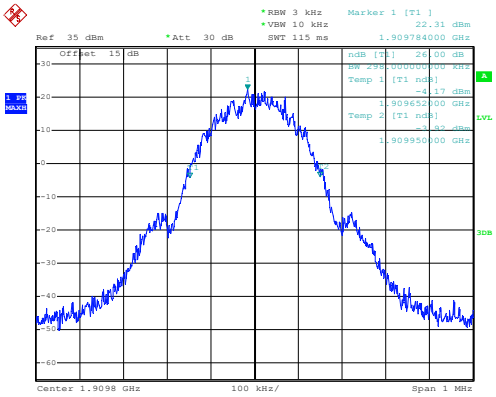
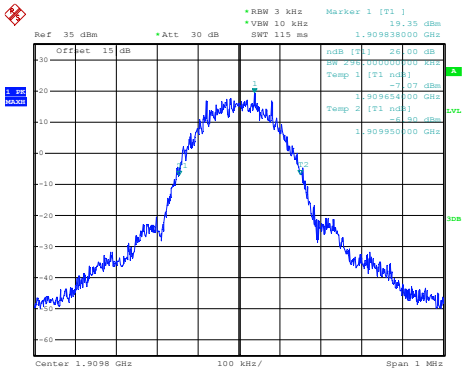
GSM1900 (GSM)	GSM1900 (EDGE class 8)
Lowest Channel	**Lowest Channel**
	
Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 29.39 dBm Peak 29.61 dBm Crest 0.22 dB 10 % 0.16 dB 1 % 0.16 dB .1 % 0.24 dB .01 % 0.24 dB	Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.51 dBm Peak 27.71 dBm Crest 3.20 dB 10 % 2.64 dB 1 % 3.08 dB .1 % 3.16 dB .01 % 3.20 dB
Date: 8.JAN.2016 22:20:46	Date: 8.JAN.2016 22:31:52
Middle Channel	**Middle Channel**
	
Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 29.32 dBm Peak 29.54 dBm Crest 0.22 dB 10 % 0.16 dB 1 % 0.20 dB .1 % 0.24 dB .01 % 0.24 dB	Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.36 dBm Peak 27.64 dBm Crest 3.28 dB 10 % 2.60 dB 1 % 3.08 dB .1 % 3.20 dB .01 % 3.24 dB
Date: 8.JAN.2016 22:21:14	Date: 8.JAN.2016 22:33:25
Highest Channel	**Highest Channel**
	
Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 29.37 dBm Peak 29.61 dBm Crest 0.24 dB 10 % 0.16 dB 1 % 0.20 dB .1 % 0.20 dB .01 % 0.20 dB	Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.42 dBm Peak 27.49 dBm Crest 3.07 dB 10 % 2.52 dB 1 % 2.96 dB .1 % 3.04 dB .01 % 3.08 dB
Date: 8.JAN.2016 22:21:39	Date: 8.JAN.2016 22:34:00

26dB Bandwidth

Mode	GSM850	
Mod.	GSM	EDGE class 8
Lowest CH	0.308	0.308
Middle CH	0.307	0.303
Highest CH	0.312	0.296

Mode	GSM1900	
Mod.	GSM	EDGE class 8
Lowest CH	0.315	0.301
Middle CH	0.316	0.302
Highest CH	0.298	0.296

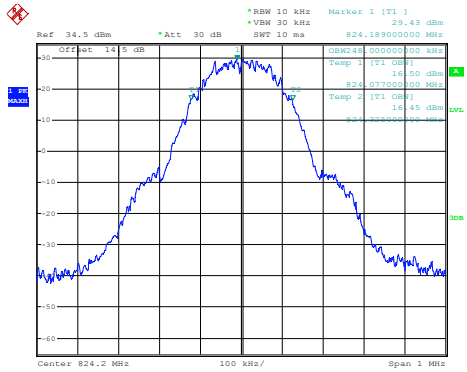
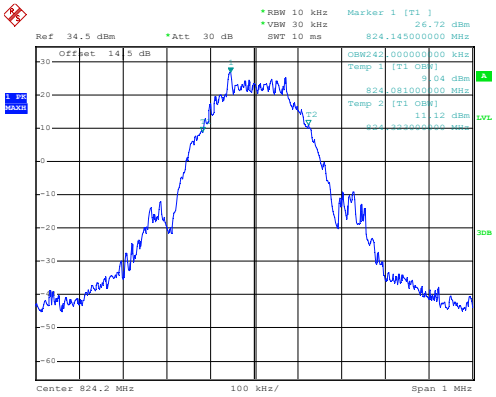
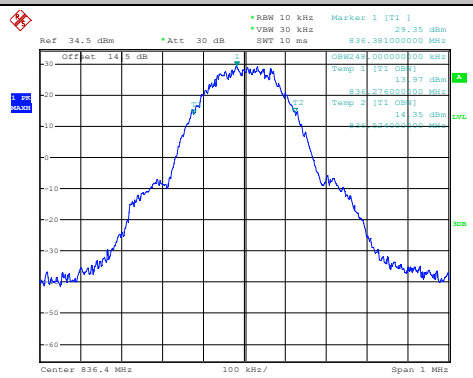
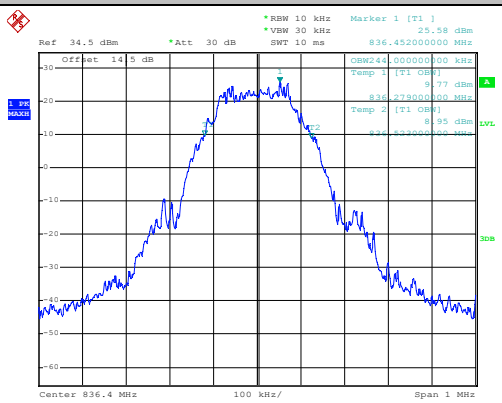
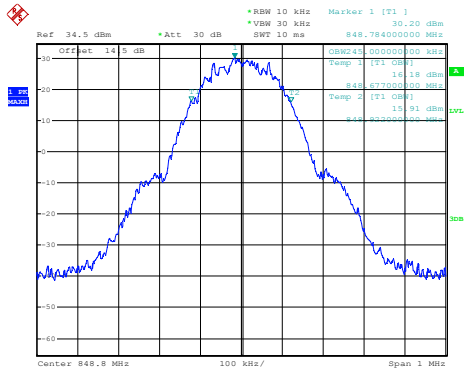
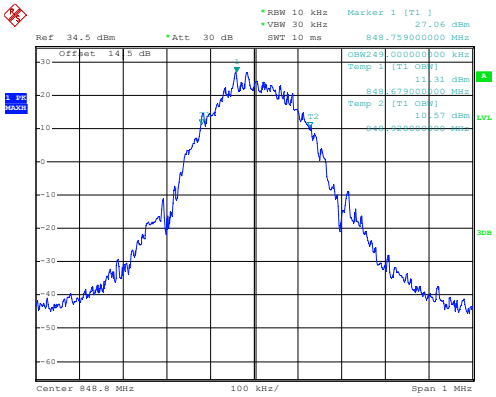
GSM850 (GSM)	GSM850 (EDGE class 8)
Lowest Channel	**Lowest Channel**
	
Date: 8.JAN.2016 23:34:08	Date: 8.JAN.2016 23:01:53
Middle Channel	**Middle Channel**
	
Date: 8.JAN.2016 23:34:36	Date: 8.JAN.2016 23:02:30
Highest Channel	**Highest Channel**
	
Date: 8.JAN.2016 23:35:04	Date: 8.JAN.2016 23:06:12

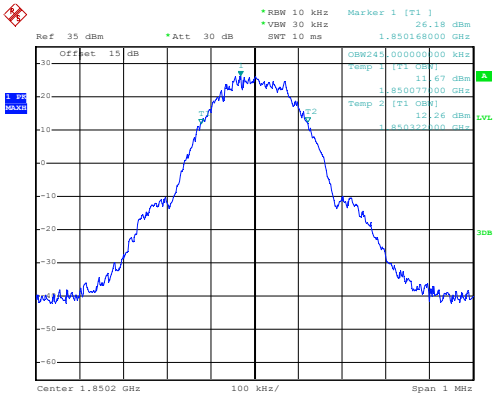
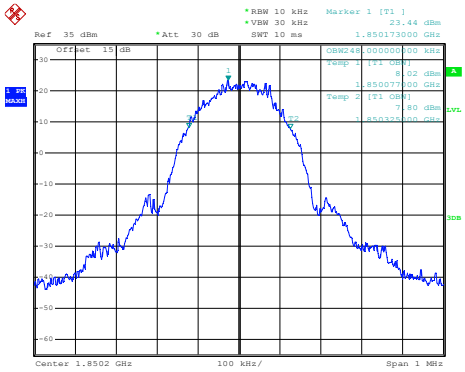
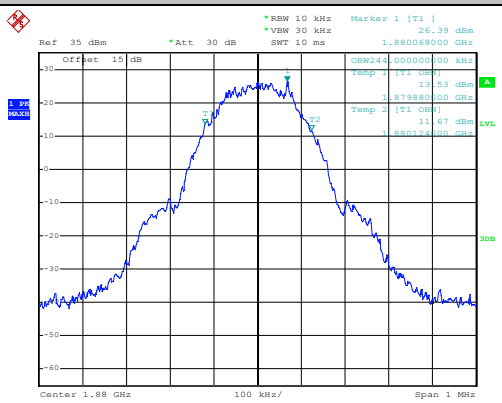
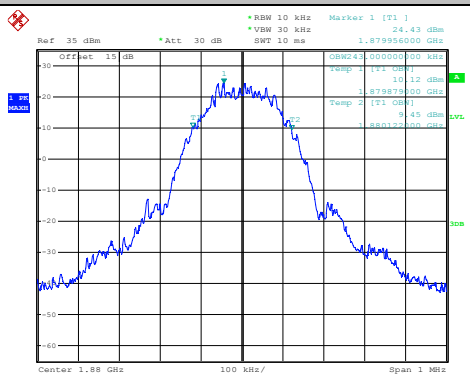
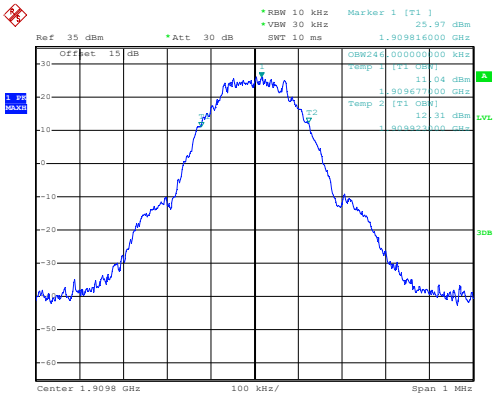
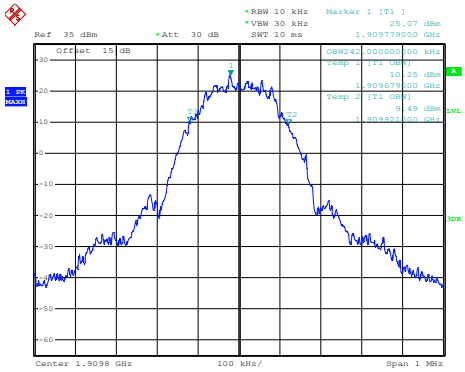
GSM1900 (GSM)	GSM1900 (EDGE class 8)
Lowest Channel	**Lowest Channel**
	
Date: 8.JAN.2016 21:48:57	Date: 8.JAN.2016 22:40:09
Middle Channel	**Middle Channel**
	
Date: 8.JAN.2016 21:49:25	Date: 8.JAN.2016 22:40:47
Highest Channel	**Highest Channel**
	
Date: 8.JAN.2016 21:49:53	Date: 8.JAN.2016 22:38:34

Occupied Bandwidth

Mode	GSM850	
Mod.	GSM	EDGE class 8
Lowest CH	0.248	0.242
Middle CH	0.248	0.244
Highest CH	0.245	0.249

Mode	GSM1900	
Mod.	GSM	EDGE class 8
Lowest CH	0.245	0.248
Middle CH	0.244	0.243
Highest CH	0.246	0.242

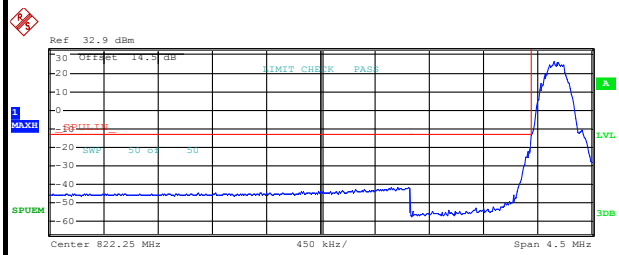
GSM850 (GSM)	GSM850 (EDGE class 8)
Lowest Channel	**Lowest Channel**
	
Date: 8.JAN.2016 23:38:15	Date: 8.JAN.2016 23:17:13
Middle Channel	**Middle Channel**
	
Date: 8.JAN.2016 23:38:43	Date: 8.JAN.2016 23:17:56
Highest Channel	**Highest Channel**
	
Date: 8.JAN.2016 23:39:11	Date: 8.JAN.2016 23:18:48

GSM1900 (GSM)	GSM1900 (EDGE class 8)
Lowest Channel	**Lowest Channel**
	
Date: 8.JAN.2016 21:54:30	Date: 8.JAN.2016 22:44:15
Middle Channel	**Middle Channel**
	
Date: 8.JAN.2016 21:54:58	Date: 8.JAN.2016 22:45:56
Highest Channel	**Highest Channel**
	
Date: 8.JAN.2016 21:55:26	Date: 8.JAN.2016 22:46:43

Conducted Band Edge

GSM850 (GSM)

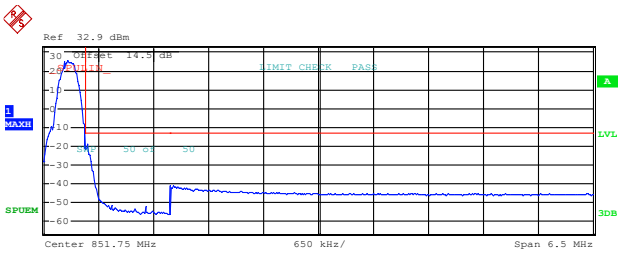
Lowest Band Edge



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
820.000 M	823.000 M	100.00 k	822.883000 M	-41.85	-28.85
823.000 M	824.000 M	3.00 k	823.984000 M	-19.79	-6.79
824.000 M	824.500 M	10.00 k	824.182500 M	26.04	-8.96

Date: 8.JAN.2016 23:44:04

Highest Band Edge

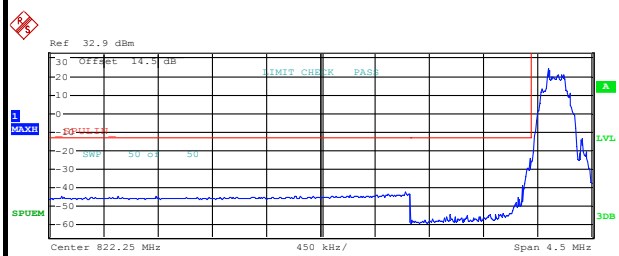


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
848.500 M	849.000 M	10.00 k	848.780500 M	25.52	-9.48
849.000 M	850.000 M	3.00 k	849.020000 M	-18.83	-5.83
850.000 M	855.000 M	100.00 k	850.000000 M	-40.95	-27.95

Date: 8.JAN.2016 23:45:31

GSM850 (EDGE class 8)

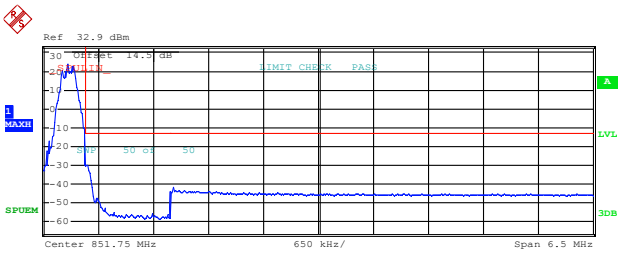
Lowest Band Edge



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
820.000 M	823.000 M	100.00 k	822.949000 M	-42.52	-29.52
823.000 M	824.000 M	3.00 k	823.980000 M	-24.40	-11.40
824.000 M	824.500 M	10.00 k	824.140000 M	24.26	-10.74

Date: 8.JAN.2016 23:09:06

Highest Band Edge

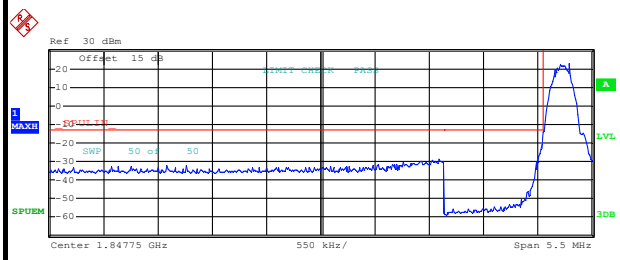


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
848.500 M	849.000 M	10.00 k	848.783000 M	23.59	-11.41
849.000 M	850.000 M	3.00 k	849.016000 M	-29.52	-16.52
850.000 M	855.000 M	100.00 k	850.030000 M	-41.95	-28.95

Date: 8.JAN.2016 23:16:23

GSM1900 (GSM)

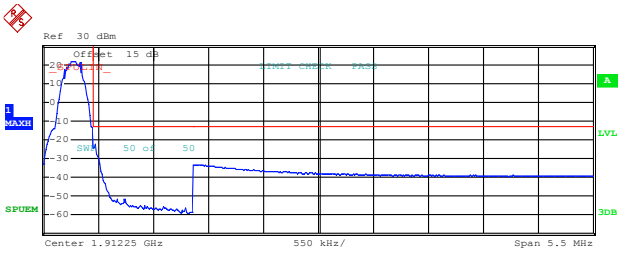
Lowest Band Edge



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.845 G	1.849 G	1.00 M	1.848948 G	-28.65	-15.65
1.849 G	1.850 G	3.00 k	1.849996 G	-23.01	-10.01
1.850 G	1.851 G	10.00 k	1.850266 G	22.43	-12.57

Date: 8.JAN.2016 21:58:09

Highest Band Edge

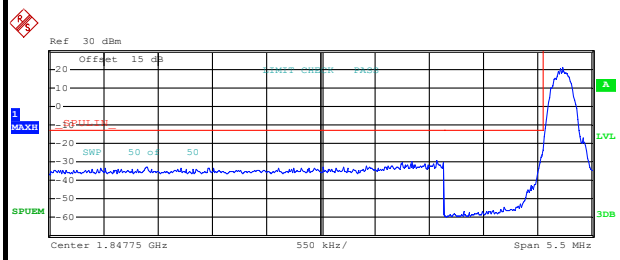


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.910 G	1.910 G	10.00 k	1.909787 G	21.78	-13.22
1.910 G	1.911 G	3.00 k	1.910016 G	-22.15	-9.15
1.911 G	1.915 G	1.00 M	1.911036 G	-33.23	-20.23

Date: 8.JAN.2016 21:59:35

GSM1900 (EDGE class 8)

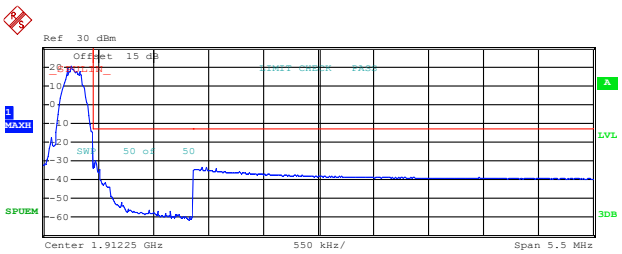
Lowest Band Edge



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.845 G	1.849 G	1.00 M	1.848920 G	-29.42	-16.42
1.849 G	1.850 G	3.00 k	1.849988 G	-25.91	-12.91
1.850 G	1.851 G	10.00 k	1.850201 G	20.67	-14.33

Date: 8.JAN.2016 22:48:47

Highest Band Edge



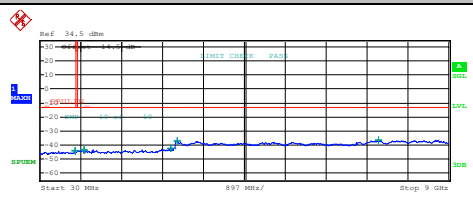
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.910 G	1.910 G	10.00 k	1.909778 G	20.20	-14.80
1.910 G	1.911 G	3.00 k	1.910016 G	-29.77	-16.77
1.911 G	1.915 G	1.00 M	1.911124 G	-33.72	-20.72

Date: 8.JAN.2016 22:53:23

Conducted Spurious Emission

GSM850 (GSM)

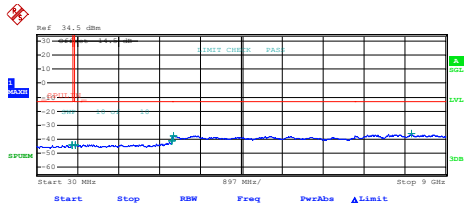
Lowest Channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	820.000 M	1.00 M	807.360000 M	-44.33	-31.33
855.000 M	1.000 G	1.00 M	999.673760 M	-43.69	-30.69
1.000 G	3.000 G	1.00 M	2.906000 G	-42.35	-29.35
3.000 G	7.000 G	1.00 M	3.048000 G	-37.14	-24.14
7.000 G	9.000 G	1.00 M	7.456000 G	-36.51	-23.51

Date: 8.JAN.2016 23:31:30

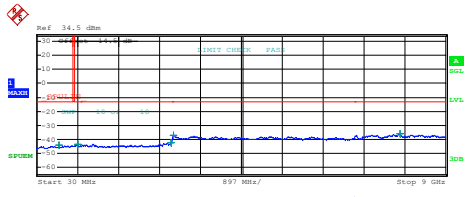
Middle Channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	820.000 M	1.00 M	806.767500 M	-44.30	-31.30
855.000 M	1.000 G	1.00 M	874.393751 M	-44.12	-31.12
1.000 G	3.000 G	1.00 M	2.999000 G	-41.37	-28.37
3.000 G	7.000 G	1.00 M	3.032000 G	-37.52	-24.52
7.000 G	9.000 G	1.00 M	8.253500 G	-36.00	-23.00

Date: 8.JAN.2016 23:32:14

Highest Channel

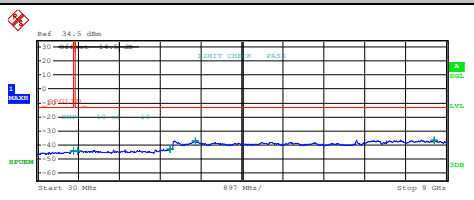


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	820.000 M	1.00 M	519.800000 M	-44.43	-31.43
855.000 M	1.000 G	1.00 M	920.250005 M	-43.37	-30.37
1.000 G	3.000 G	1.00 M	2.974000 G	-42.41	-29.41
3.000 G	7.000 G	1.00 M	3.028000 G	-37.31	-24.31
7.000 G	9.000 G	1.00 M	7.987000 G	-35.82	-22.82

Date: 8.JAN.2016 23:32:59

GSM850 (EDGE class 8)

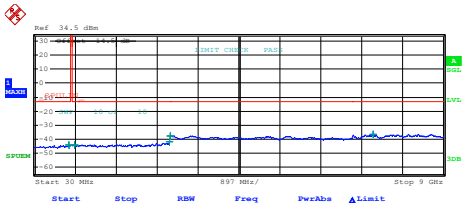
Lowest Channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	820.000 M	1.00 M	814.272500 M	-44.27	-31.27
855.000 M	1.000 G	1.00 M	913.833754 M	-44.14	-31.14
1.000 G	3.000 G	1.00 M	2.943000 G	-42.76	-29.76
3.000 G	7.000 G	1.00 M	3.492000 G	-36.94	-23.94
7.000 G	9.000 G	1.00 M	8.739000 G	-36.73	-23.73

Date: 8.JAN.2016 23:22:33

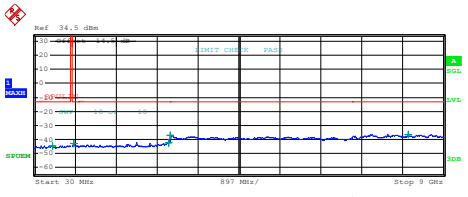
Middle Channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	820.000 M	1.00 M	789.585000 M	-43.94	-30.94
855.000 M	1.000 G	1.00 M	913.616254 M	-44.14	-31.14
1.000 G	3.000 G	1.00 M	2.983000 G	-41.72	-28.72
3.000 G	7.000 G	1.00 M	3.006000 G	-37.44	-24.44
7.000 G	9.000 G	1.00 M	7.465000 G	-36.64	-23.64

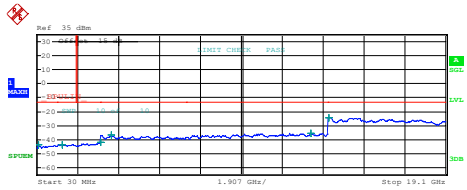
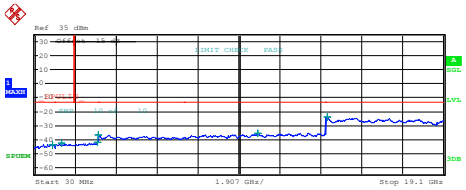
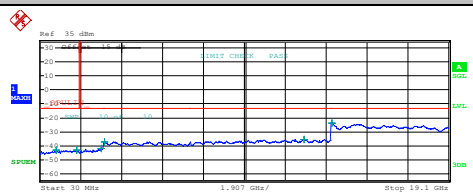
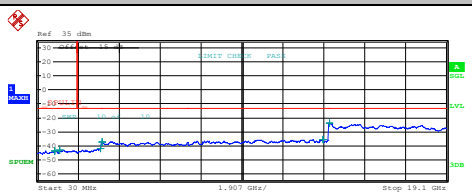
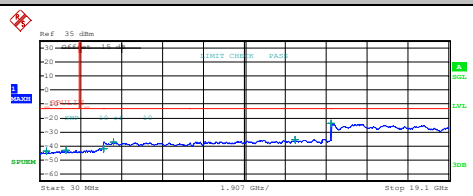
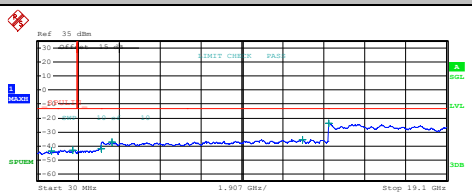
Date: 8.JAN.2016 23:23:18

Highest Channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	820.000 M	1.00 M	426.777500 M	-44.60	-31.60
855.000 M	1.000 G	1.00 M	894.512503 M	-43.14	-30.14
1.000 G	3.000 G	1.00 M	2.974500 G	-42.12	-29.12
3.000 G	7.000 G	1.00 M	3.003000 G	-37.23	-24.23
7.000 G	9.000 G	1.00 M	8.226000 G	-36.27	-23.27

Date: 8.JAN.2016 23:24:03

GSM1900 (GSM)	GSM1900 (EDGE class 8)
Lowest Channel	**Lowest Channel**
	
Start [Hz] / Stop [Hz] / RBW [Hz] / Freq [Hz] / PwrAbs [dBm] / ΔLimit [dB] 30.000 M / 1.000 G / 1.00 M / 125.060000 M / -43.86 / -30.86 1.000 G / 1.845 G / 1.00 M / 1.216531 G / -43.58 / -30.58 1.915 G / 3.000 G / 1.00 M / 2.991591 G / -41.74 / -28.74 3.000 G / 7.000 G / 1.00 M / 3.499000 G / -36.47 / -23.47 7.000 G / 13.600 G / 1.00 M / 12.802225 G / -35.48 / -22.48 13.600 G / 19.100 G / 1.00 M / 13.638500 G / -24.19 / -11.19	Start [Hz] / Stop [Hz] / RBW [Hz] / Freq [Hz] / PwrAbs [dBm] / ΔLimit [dB] 30.000 M / 1.000 G / 1.00 M / 875.840000 M / -43.58 / -30.58 1.000 G / 1.845 G / 1.00 M / 1.281808 G / -42.27 / -29.27 1.915 G / 3.000 G / 1.00 M / 2.971519 G / -42.15 / -29.15 3.000 G / 7.000 G / 1.00 M / 3.022000 G / -36.82 / -23.82 7.000 G / 13.600 G / 1.00 M / 10.452625 G / -35.40 / -22.40 13.600 G / 19.100 G / 1.00 M / 13.673562 G / -23.60 / -10.60
Date: 8.JAN.2016 22:23:04	Date: 8.JAN.2016 22:28:52
Middle Channel	**Middle Channel**
	
Start [Hz] / Stop [Hz] / RBW [Hz] / Freq [Hz] / PwrAbs [dBm] / ΔLimit [dB] 30.000 M / 1.000 G / 1.00 M / 800.422500 M / -43.14 / -30.14 1.000 G / 1.845 G / 1.00 M / 1.750782 G / -42.94 / -29.94 1.915 G / 3.000 G / 1.00 M / 2.876853 G / -41.87 / -28.87 3.000 G / 7.000 G / 1.00 M / 3.038000 G / -37.01 / -24.01 7.000 G / 13.600 G / 1.00 M / 12.361675 G / -35.40 / -22.40 13.600 G / 19.100 G / 1.00 M / 13.633688 G / -23.86 / -10.86	Start [Hz] / Stop [Hz] / RBW [Hz] / Freq [Hz] / PwrAbs [dBm] / ΔLimit [dB] 30.000 M / 1.000 G / 1.00 M / 817.882500 M / -43.74 / -30.74 1.000 G / 1.845 G / 1.00 M / 1.054714 G / -43.16 / -30.16 1.915 G / 3.000 G / 1.00 M / 2.969078 G / -41.71 / -28.71 3.000 G / 7.000 G / 1.00 M / 3.027000 G / -37.27 / -24.27 7.000 G / 13.600 G / 1.00 M / 13.326925 G / -35.33 / -22.33 13.600 G / 19.100 G / 1.00 M / 13.631625 G / -23.62 / -10.62
Date: 8.JAN.2016 22:23:48	Date: 8.JAN.2016 22:29:37
Highest Channel	**Highest Channel**
	
Start [Hz] / Stop [Hz] / RBW [Hz] / Freq [Hz] / PwrAbs [dBm] / ΔLimit [dB] 30.000 M / 1.000 G / 1.00 M / 345.735000 M / -43.86 / -30.86 1.000 G / 1.845 G / 1.00 M / 1.267020 G / -42.82 / -29.82 1.915 G / 3.000 G / 1.00 M / 2.991591 G / -42.12 / -29.12 3.000 G / 7.000 G / 1.00 M / 3.454000 G / -36.95 / -23.95 7.000 G / 13.600 G / 1.00 M / 11.946700 G / -35.47 / -22.47 13.600 G / 19.100 G / 1.00 M / 13.600687 G / -23.83 / -10.83	Start [Hz] / Stop [Hz] / RBW [Hz] / Freq [Hz] / PwrAbs [dBm] / ΔLimit [dB] 30.000 M / 1.000 G / 1.00 M / 694.207500 M / -43.86 / -30.86 1.000 G / 1.845 G / 1.00 M / 1.684239 G / -42.81 / -29.81 1.915 G / 3.000 G / 1.00 M / 2.998372 G / -41.74 / -28.74 3.000 G / 7.000 G / 1.00 M / 3.494000 G / -37.32 / -24.32 7.000 G / 13.600 G / 1.00 M / 12.383950 G / -35.27 / -22.27 13.600 G / 19.100 G / 1.00 M / 13.622000 G / -23.88 / -10.88
Date: 8.JAN.2016 22:24:33	Date: 8.JAN.2016 22:30:22

Frequency Stability

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0060	0.0048	PASS
40	Normal Voltage	0.0179	0.0203	
30	Normal Voltage	0.0155	0.0215	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0024	0.0239	
0	Normal Voltage	0.0048	0.0215	
-10	Normal Voltage	0.0060	0.0012	
-20	Normal Voltage	0.0179	0.0191	
-30	Normal Voltage	0.0167	0.0227	
20	Maximum Voltage	0.0024	0.0191	
20	Normal Voltage	0.0012	0.0179	
20	Battery End Point	0.0036	0.0203	

Note: Normal Voltage = 3.8V. ；Battery End Point (BEP) = 3.5 V.；Maximum Voltage =4.35 V

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0021	0.0016	PASS
40	Normal Voltage	0.0059	0.0074	
30	Normal Voltage	0.0005	0.0005	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0053	0.0005	
0	Normal Voltage	0.0059	0.0064	
-10	Normal Voltage	0.0027	0.0011	
-20	Normal Voltage	0.0021	0.0021	
-30	Normal Voltage	0.0011	0.0080	
20	Maximum Voltage	0.0016	0.0000	
20	Normal Voltage	0.0005	0.0005	
20	Battery End Point	0.0016	0.0005	

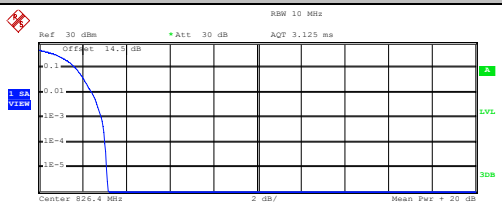
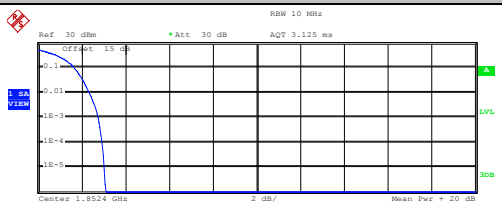
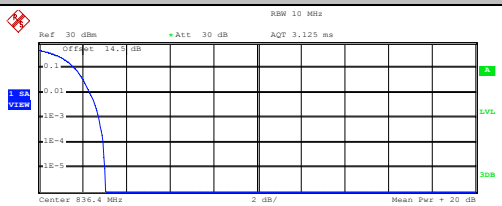
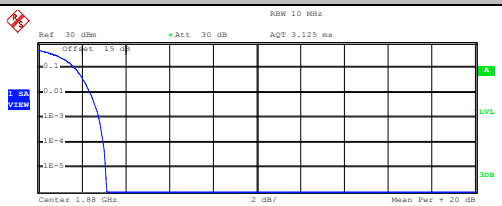
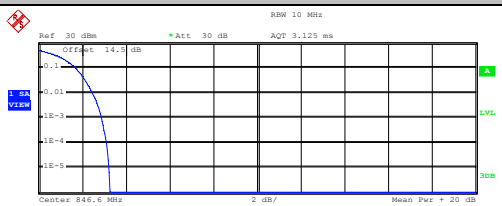
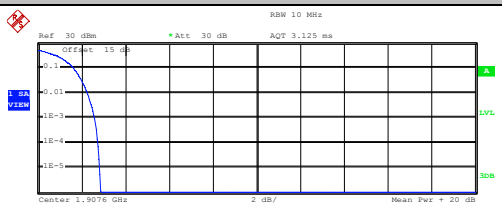
Note:

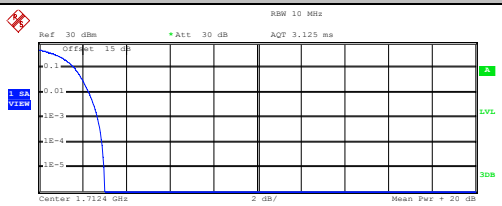
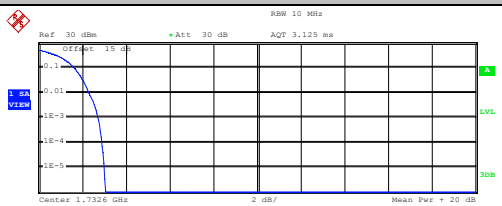
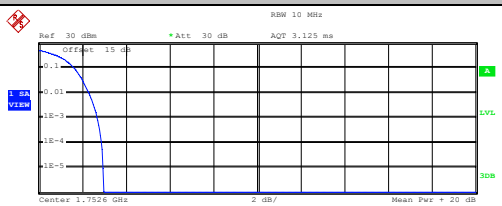
1. Normal Voltage = 3.8V. ；Battery End Point (BEP) = 3.5 V.；Maximum Voltage =4.35 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

A2. WCDMA

Peak-to-Average Ratio

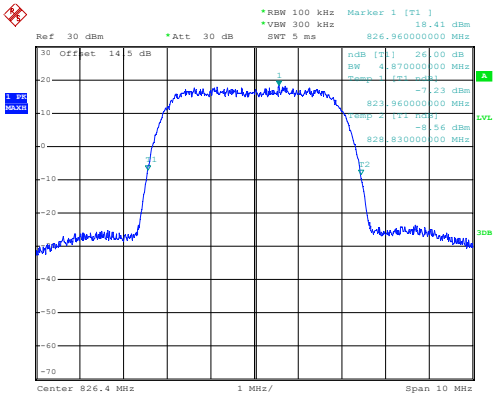
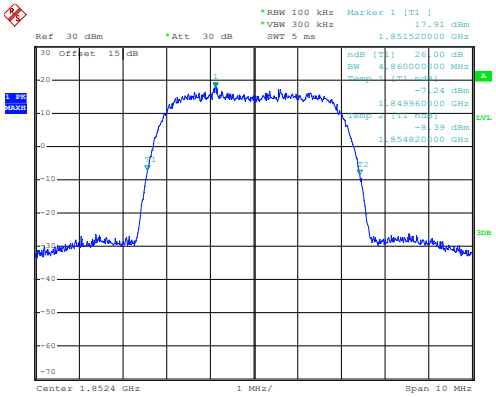
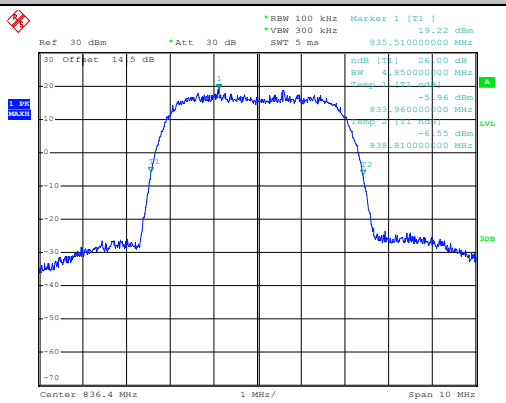
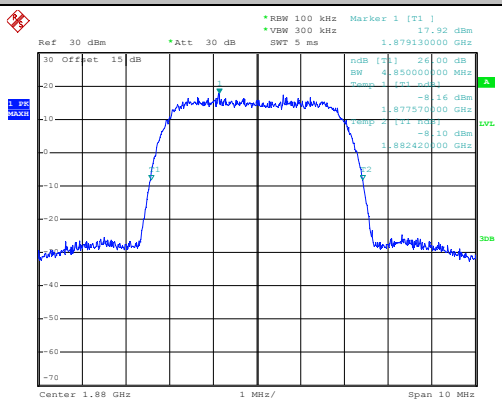
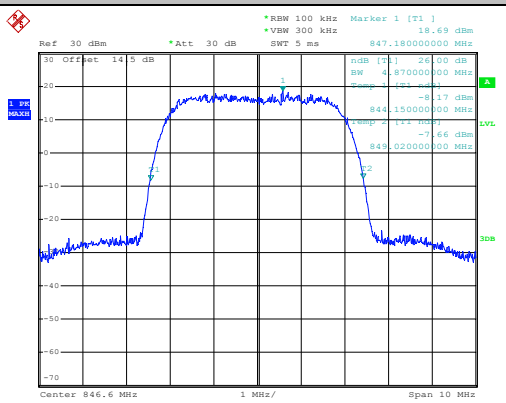
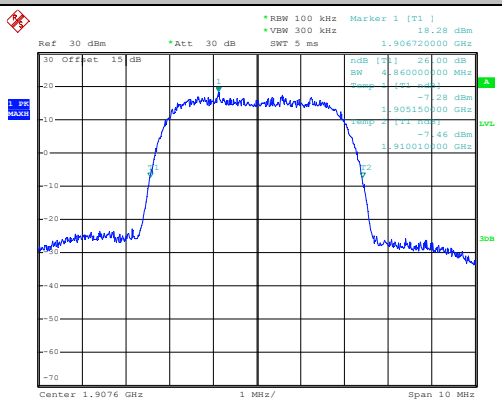
Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	2.88	2.76	2.72	PASS
Middle CH	2.76	2.80	2.72	
Highest CH	2.88	2.60	2.68	

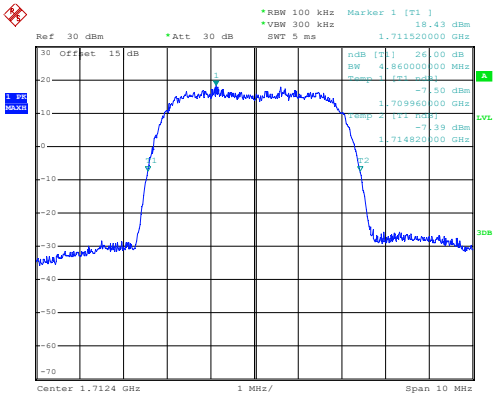
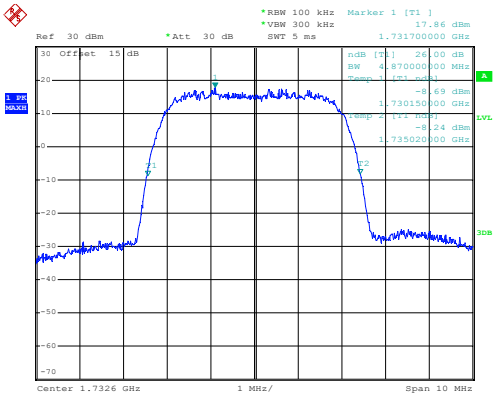
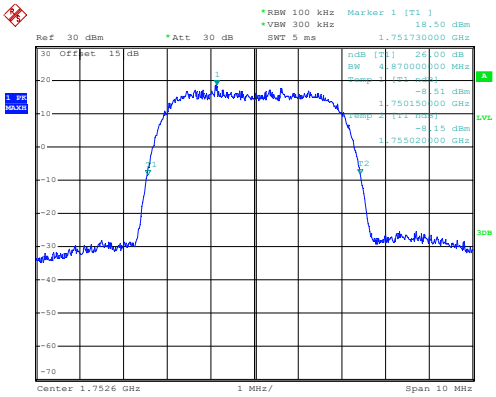
WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	**Lowest Channel**
	
Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 22.84 dBm Peak 26.02 dBm Crest 3.17 dB 10 % 1.68 dB 1 % 2.44 dB .1 % 2.88 dB .01 % 3.04 dB	Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 21.52 dBm Peak 24.60 dBm Crest 3.09 dB 10 % 1.68 dB 1 % 2.36 dB .1 % 2.76 dB .01 % 2.92 dB
Date: 21.JAN.2016 22:20:53	Date: 21.JAN.2016 21:19:18
Middle Channel	**Middle Channel**
	
Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 22.68 dBm Peak 25.73 dBm Crest 3.06 dB 10 % 1.64 dB 1 % 2.36 dB .1 % 2.76 dB .01 % 2.96 dB	Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 21.55 dBm Peak 24.68 dBm Crest 3.13 dB 10 % 1.68 dB 1 % 2.40 dB .1 % 2.80 dB .01 % 3.00 dB
Date: 21.JAN.2016 22:21:18	Date: 21.JAN.2016 21:19:39
Highest Channel	**Highest Channel**
	
Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 22.74 dBm Peak 26.02 dBm Crest 3.28 dB 10 % 1.72 dB 1 % 2.48 dB .1 % 2.88 dB .01 % 3.12 dB	Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 21.90 dBm Peak 24.75 dBm Crest 2.85 dB 10 % 1.64 dB 1 % 2.28 dB .1 % 2.60 dB .01 % 2.76 dB
Date: 21.JAN.2016 22:21:42	Date: 21.JAN.2016 21:20:45

WCDMA Band IV (RMC 12.2Kbps)	
Lowest Channel	
 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 22.08 dBm Peak 25.10 dBm Crest 3.02 dB 10 % 1.64 dB 1 % 2.32 dB .1 % 2.72 dB .01 % 2.92 dB Date: 21.JAN.2016 22:08:27	
Middle Channel	
 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 21.91 dBm Peak 24.96 dBm Crest 3.05 dB 10 % 1.64 dB 1 % 2.32 dB .1 % 2.72 dB .01 % 2.92 dB Date: 21.JAN.2016 22:09:00	
Highest Channel	
 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 22.07 dBm Peak 25.03 dBm Crest 2.96 dB 10 % 1.64 dB 1 % 2.32 dB .1 % 2.68 dB .01 % 2.88 dB Date: 21.JAN.2016 22:09:19	

26dB Bandwidth

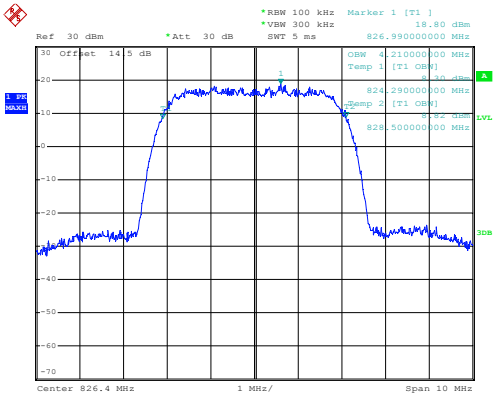
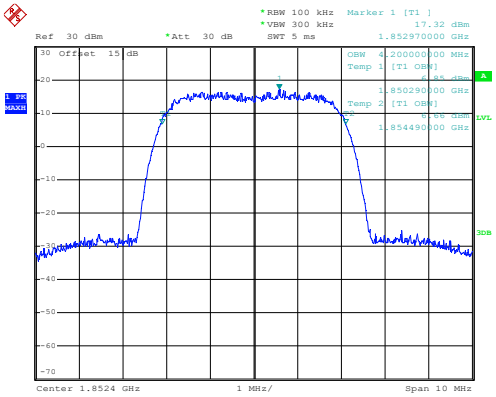
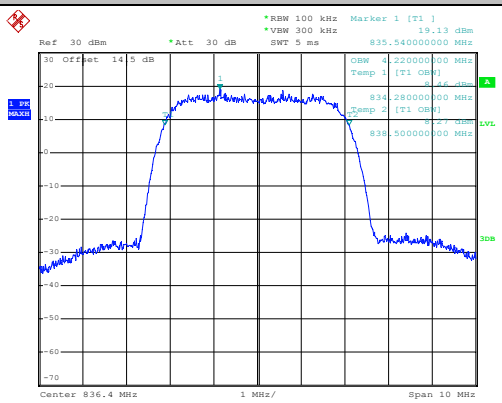
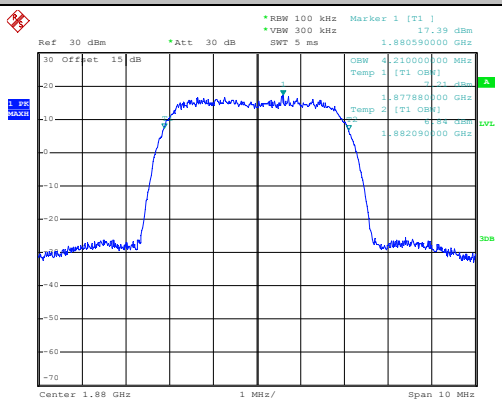
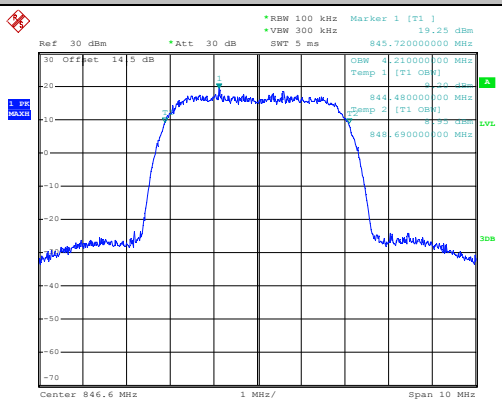
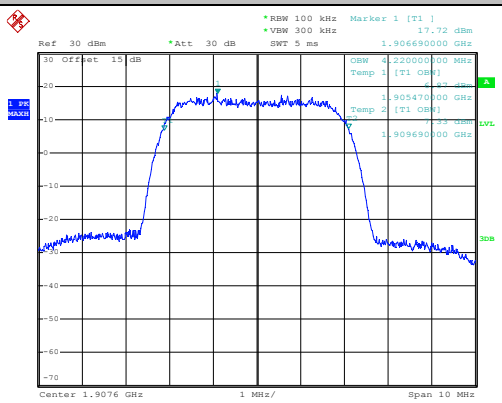
Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.87	4.86	4.86
Middle CH	4.85	4.85	4.87
Highest CH	4.87	4.86	4.87

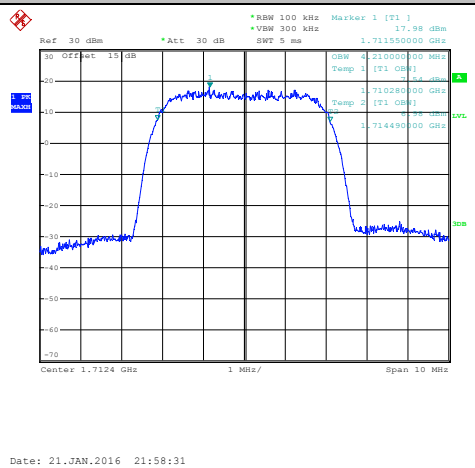
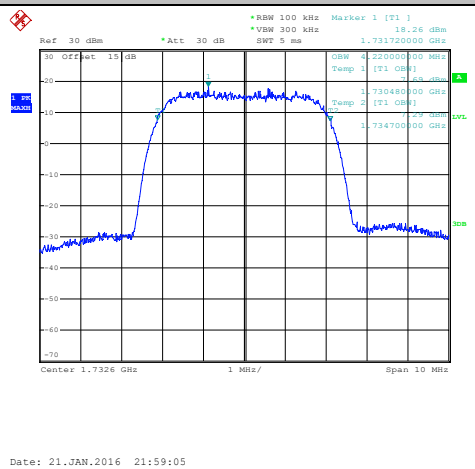
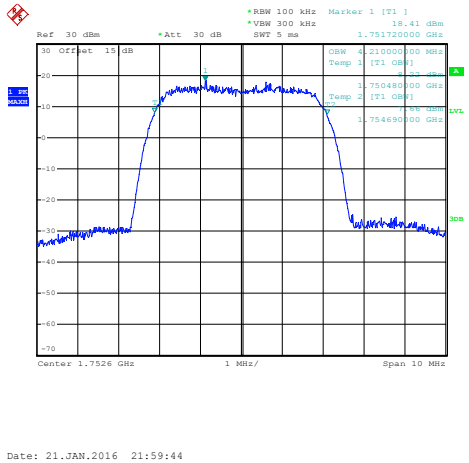
WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	**Lowest Channel**
	
Date: 21.JAN.2016 22:10:54	Date: 21.JAN.2016 21:12:36
Middle Channel	**Middle Channel**
	
Date: 21.JAN.2016 22:11:33	Date: 21.JAN.2016 21:13:11
Highest Channel	**Highest Channel**
	
Date: 21.JAN.2016 22:12:18	Date: 21.JAN.2016 21:13:47

WCDMA Band IV (RMC 12.2Kbps)	
Lowest Channel	
 Date: 21.JAN.2016 22:06:46	
Middle Channel	
 Date: 21.JAN.2016 22:07:20	
Highest Channel	
 Date: 21.JAN.2016 22:08:04	

Occupied Bandwidth

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

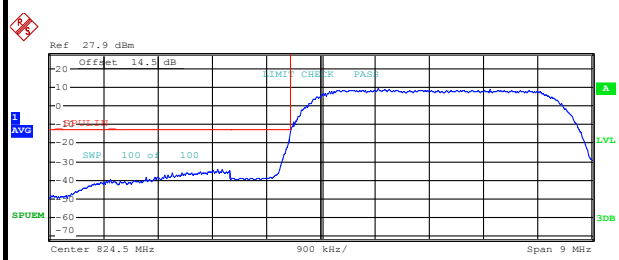
WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

WCDMA Band IV (RMC 12.2Kbps)	
Lowest Channel	
 Date: 21.JAN.2016 21:58:31	
Middle Channel	
 Date: 21.JAN.2016 21:59:05	
Highest Channel	
 Date: 21.JAN.2016 21:59:44	

Conducted Band Edge

WCDMA Band V (RMC 12.2Kbps)

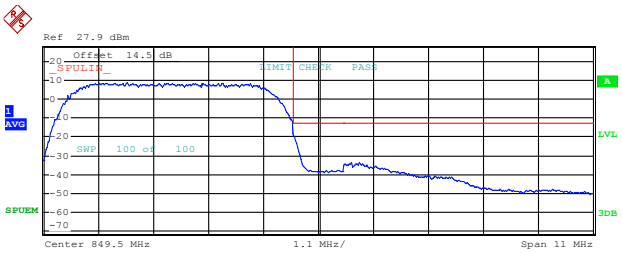
Lowest Band Edge



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
820.000 M	823.000 M	100.00 k	822.790000 M	-34.56	-21.56
823.000 M	824.000 M	50.00 k	823.996000 M	-17.53	-4.53
824.000 M	829.000 M	100.00 k	825.455000 M	9.52	-25.48

Date: 21.JAN.2016 22:17:30

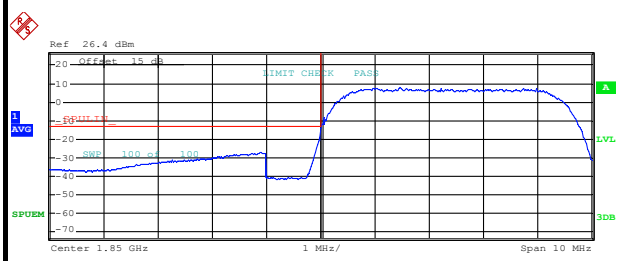
Highest Band Edge



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
844.000 M	849.000 M	100.00 k	845.660000 M	9.04	-25.96
849.000 M	850.000 M	50.00 k	849.012000 M	-18.70	-5.70
850.000 M	855.000 M	100.00 k	850.315000 M	-33.99	-20.99

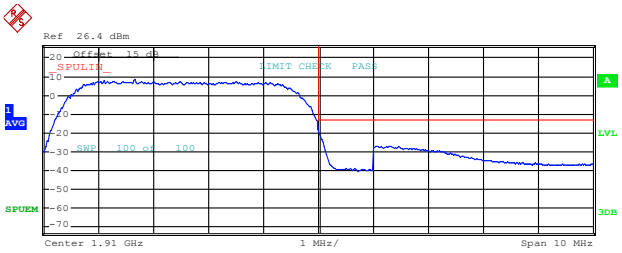
Date: 21.JAN.2016 22:20:19

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



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.845 G	1.849 G	1.00 M	1.848896 G	-27.37	-14.37
1.849 G	1.850 G	50.00 k	1.849980 G	-19.50	-6.50
1.850 G	1.855 G	100.00 k	1.851465 G	7.93	-27.07

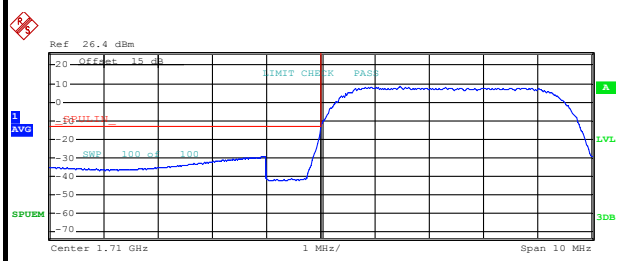
Date: 21.JAN.2016 21:08:41



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.905 G	1.910 G	100.00 k	1.906650 G	8.30	-26.70
1.910 G	1.911 G	50.00 k	1.910004 G	-19.80	-6.80
1.911 G	1.915 G	1.00 M	1.911052 G	-27.09	-14.09

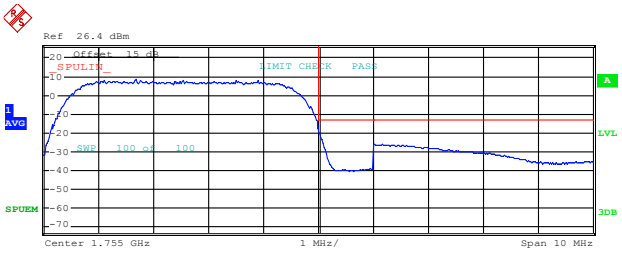
Date: 21.JAN.2016 21:11:33

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



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.705 G	1.709 G	1.00 M	1.708992 G	-29.49	-16.49
1.709 G	1.710 G	50.00 k	1.709992 G	-17.87	-4.87
1.710 G	1.715 G	100.00 k	1.711450 G	8.82	-26.18

Date: 21.JAN.2016 22:02:58



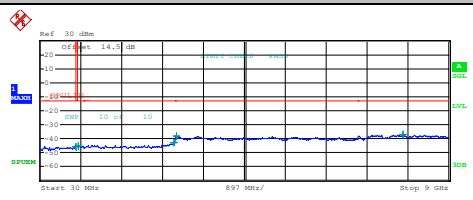
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.750 G	1.755 G	100.00 k	1.751675 G	8.34	-26.66
1.755 G	1.756 G	50.00 k	1.755008 G	-20.01	-7.01
1.756 G	1.760 G	1.00 M	1.756164 G	-26.13	-13.13

Date: 21.JAN.2016 22:05:51

Conducted Spurious Emission

WCDMA Band V (RMC 12.2Kbps)

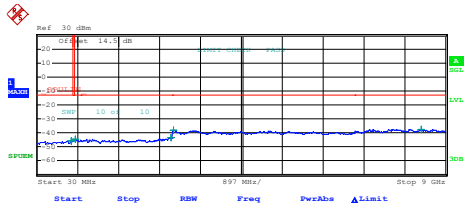
Lowest Channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	820.000 M	1.00 M	811.310000 M	-45.62	-32.62
855.000 M	1.000 G	1.00 M	880.918752 M	-45.04	-32.04
1.000 G	3.000 G	1.00 M	2.972500 G	-42.84	-29.84
3.000 G	7.000 G	1.00 M	3.030000 G	-38.26	-25.26
7.000 G	9.000 G	1.00 M	7.994500 G	-37.08	-24.08

Date: 21.JAN.2016 22:23:15

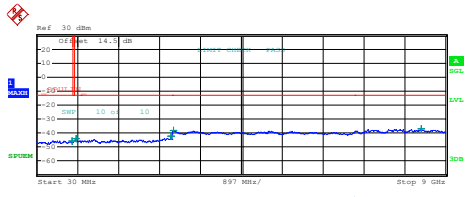
Middle Channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	820.000 M	1.00 M	792.152500 M	-45.93	-32.93
855.000 M	1.000 G	1.00 M	873.088751 M	-44.27	-31.27
1.000 G	3.000 G	1.00 M	2.967000 G	-43.37	-30.37
3.000 G	7.000 G	1.00 M	3.028000 G	-38.05	-25.05
7.000 G	9.000 G	1.00 M	8.454500 G	-37.32	-24.32

Date: 21.JAN.2016 22:24:35

Highest Channel

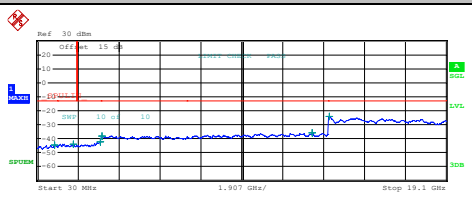


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	820.000 M	1.00 M	795.510000 M	-45.49	-32.49
855.000 M	1.000 G	1.00 M	892.917503 M	-44.23	-31.23
1.000 G	3.000 G	1.00 M	2.973000 G	-42.50	-29.50
3.000 G	7.000 G	1.00 M	3.019000 G	-38.34	-25.34
7.000 G	9.000 G	1.00 M	8.454500 G	-36.92	-23.92

Date: 21.JAN.2016 22:25:33

WCDMA Band II (RMC 12.2Kbps)

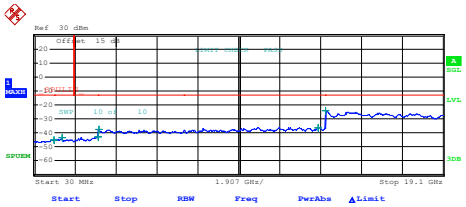
Lowest Channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	1.00 M	828.067500 M	-44.64	-31.64
1.000 G	1.845 G	1.00 M	1.692478 G	-43.83	-30.83
1.915 G	3.000 G	1.00 M	2.975859 G	-42.20	-29.20
3.000 G	7.000 G	1.00 M	3.034000 G	-37.92	-24.92
7.000 G	13.600 G	1.00 M	12.836050 G	-36.03	-23.03
13.600 G	19.100 G	1.00 M	13.633688 G	-24.00	-11.00

Date: 21.JAN.2016 21:22:04

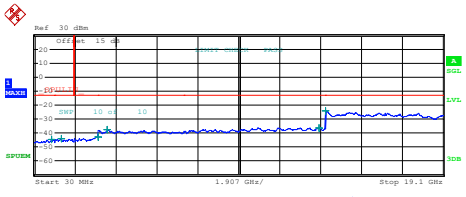
Middle Channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	1.00 M	931.130000 M	-45.07	-32.07
1.000 G	1.845 G	1.00 M	1.308214 G	-43.68	-30.68
1.915 G	3.000 G	1.00 M	2.992134 G	-42.89	-29.89
3.000 G	7.000 G	1.00 M	3.054000 G	-37.62	-24.62
7.000 G	13.600 G	1.00 M	13.252675 G	-36.16	-23.16
13.600 G	19.100 G	1.00 M	13.608938 G	-24.38	-11.38

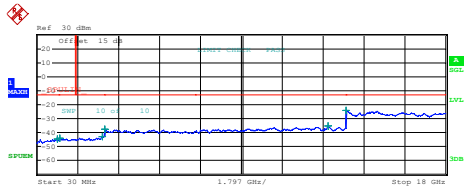
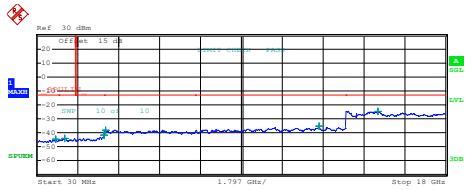
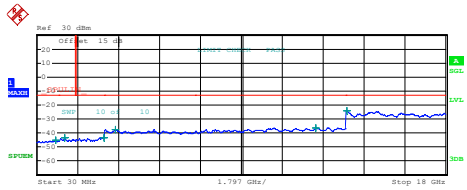
Date: 21.JAN.2016 21:23:15

Highest Channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	1.00 M	816.185000 M	-44.51	-31.51
1.000 G	1.845 G	1.00 M	1.276526 G	-44.05	-31.05
1.915 G	3.000 G	1.00 M	2.987522 G	-42.77	-29.77
3.000 G	7.000 G	1.00 M	3.443000 G	-37.53	-24.53
7.000 G	13.600 G	1.00 M	13.313725 G	-36.33	-23.33
13.600 G	19.100 G	1.00 M	13.613750 G	-24.38	-11.38

Date: 21.JAN.2016 21:24:08

WCDMA Band IV (RMC 12.2Kbps)	
Lowest Channel	
 Start 30 MHz 1.797 GHz/ Stop 18 GHz Start [Hz] / Stop [Hz] / RBW [Hz] / Freq [Hz] / PwrAbs [dBm] / ΔLimit [dB] 30.000 M / 1.000 G / 1.00 M / 920.945000 M / -44.66 / -31.66 1.000 G / 1.705 G / 1.00 M / 1.043710 G / -44.02 / -31.02 1.760 G / 3.000 G / 1.00 M / 2.898010 G / -42.92 / -29.92 3.000 G / 7.000 G / 1.00 M / 3.028000 G / -37.57 / -24.57 7.000 G / 13.600 G / 1.00 M / 12.817075 G / -35.40 / -22.40 13.600 G / 18.000 G / 1.00 M / 13.617050 G / -24.16 / -11.16 Date: 21.JAN.2016 21:29:03	
Middle Channel	
 Start 30 MHz 1.797 GHz/ Stop 18 GHz Start [Hz] / Stop [Hz] / RBW [Hz] / Freq [Hz] / PwrAbs [dBm] / ΔLimit [dB] 30.000 M / 1.000 G / 1.00 M / 840.435000 M / -44.59 / -31.59 1.000 G / 1.705 G / 1.00 M / 1.259440 G / -43.80 / -30.80 1.760 G / 3.000 G / 1.00 M / 2.982640 G / -41.41 / -28.41 3.000 G / 7.000 G / 1.00 M / 3.058000 G / -38.07 / -25.07 7.000 G / 13.600 G / 1.00 M / 12.436750 G / -35.40 / -22.40 13.600 G / 18.000 G / 1.00 M / 15.010750 G / -24.57 / -11.57 Date: 21.JAN.2016 21:56:44	
Highest Channel	
 Start 30 MHz 1.797 GHz/ Stop 18 GHz Start [Hz] / Stop [Hz] / RBW [Hz] / Freq [Hz] / PwrAbs [dBm] / ΔLimit [dB] 30.000 M / 1.000 G / 1.00 M / 846.497500 M / -45.02 / -32.02 1.000 G / 1.705 G / 1.00 M / 1.267724 G / -43.65 / -30.65 1.760 G / 3.000 G / 1.00 M / 2.969930 G / -43.15 / -30.15 3.000 G / 7.000 G / 1.00 M / 3.469000 G / -37.51 / -24.51 7.000 G / 13.600 G / 1.00 M / 12.271750 G / -36.31 / -23.31 13.600 G / 18.000 G / 1.00 M / 13.640700 G / -24.12 / -11.12 Date: 21.JAN.2016 21:57:35	

Frequency Stability

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2KbpsRMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0275	PASS
40	Normal Voltage	0.0227	
30	Normal Voltage	0.0263	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0036	
-10	Normal Voltage	0.0263	
-20	Normal Voltage	0.0239	
-30	Normal Voltage	0.0000	
20	Maximum Voltage	0.0263	
20	Normal Voltage	0.0024	
20	Battery End Point	0.0287	

Note: Normal Voltage = 3.8V. ；Battery End Point (BEP) = 3.5 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	0.0021	PASS
40	Normal Voltage	0.0090	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0080	
-10	Normal Voltage	0.0074	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0016	
20	Maximum Voltage	0.0000	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0011	

Note:

1. Normal Voltage = 3.8V. ；Battery End Point (BEP) = 3.5 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.

Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0115	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0098	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0098	
0	Normal Voltage	0.0087	
-10	Normal Voltage	0.0092	
-20	Normal Voltage	0.0110	
-30	Normal Voltage	0.0104	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0006	
20	Battery End Point	0.0012	

Note:

1. Normal Voltage = 3.8V. ；Battery End Point (BEP) = 3.5 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	26.63	0.4605	21.66	0.1466
Middle		25.79	0.3797	21.06	0.1275
Highest		24.93	0.3111	21.15	0.1302
Lowest	GSM850 EDGE class 8	20.10	0.1023	14.79	0.0301
Middle		18.71	0.0742	14.12	0.0258
Highest		17.85	0.0610	14.43	0.0278
Lowest	WCDMA Band V RMC 12.2Kbps	17.21	0.0526	12.06	0.0161
Middle		16.40	0.0437	11.56	0.0143
Highest		15.77	0.0378	11.83	0.0152
Limit	ERP < 7W	Result		PASS	

Channel	Mode	Horizontal		Vertical	
		EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	GSM1900 GSM	27.85	0.6089	27.83	0.6072
Middle		28.44	0.6988	28.05	0.6377
Highest		27.73	0.5932	27.59	0.5737
Lowest	GSM1900 EDGE class 8	24.59	0.2875	24.20	0.2630
Middle		24.78	0.3008	23.90	0.2455
Highest		23.48	0.2229	23.84	0.2419
Lowest	WCDMA Band II RMC 12.2Kbps	20.97	0.1249	20.85	0.1216
Middle		21.77	0.1504	21.51	0.1417
Highest		21.06	0.1276	20.95	0.1244
Limit	EIRP < 2W	Result		PASS	

Channel	Mode	Horizontal		Vertical	
		EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	WCDMA Band IV RMC 12.2Kbps	22.55	0.1798	22.62	0.1830
Middle		23.16	0.2069	23.19	0.2082
Highest		23.54	0.2257	23.42	0.2198
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	1648.4	-48.72	-13	-35.72	-58.18	-55.40	0.57	9.40	H
	2472.6	-44.12	-13	-31.12	-58.98	-51.83	0.74	10.60	H
	3296.8	-56.22	-13	-43.22	-71.82	-65.82	0.85	12.60	H
	1648.4	-55.81	-13	-42.81	-62.64	-62.49	0.57	9.40	V
	2472.6	-54.30	-13	-41.30	-65.80	-62.01	0.74	10.60	V
	3296.8	-55.22	-13	-42.22	-69.83	-64.82	0.85	12.60	V
Middle	1672	-50.43	-13	-37.43	-59.27	-57.11	0.57	9.40	H
	2510	-42.96	-13	-29.96	-58.52	-50.67	0.74	10.60	H
	3346	-55.07	-13	-42.07	-70.67	-64.67	0.85	12.60	H
	1672	-53.37	-13	-40.37	-60.76	-60.05	0.57	9.40	V
	2510	-56.17	-13	-43.17	-67.67	-63.88	0.74	10.60	V
	3346	-58.51	-13	-45.51	-73.12	-68.11	0.85	12.60	V
Highest	1697.6	-47.26	-13	-34.26	-57.12	-53.94	0.57	9.40	H
	2546.4	-47.98	-13	-34.98	-61.79	-55.69	0.74	10.60	H
	3395.2	-55.72	-13	-42.72	-71.32	-65.32	0.85	12.60	H
	1697.6	-56.76	-13	-43.76	-63.59	-63.44	0.57	9.40	V
	2546.4	-52.44	-13	-39.44	-64.34	-60.15	0.74	10.60	V
	3395.2	-56.63	-13	-43.63	-71.24	-66.23	0.85	12.60	V

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

GSM850 (EDGE class 8)									
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	1648.4	-61.89	-13	-48.89	-69.46	-68.57	0.57	9.40	H
	2472.6	-58.31	-13	-45.31	-70.59	-66.02	0.74	10.60	H
	3296.8	-56.56	-13	-43.56	-72.16	-66.16	0.85	12.60	H
	1648.4	-63.29	-13	-50.29	-70.12	-69.97	0.57	9.40	V
	2472.6	-59.42	-13	-46.42	-70.92	-67.13	0.74	10.60	V
	3296.8	-58.08	-13	-45.08	-72.69	-67.68	0.85	12.60	V
Middle	1672	-61.97	-13	-48.97	-69.54	-68.65	0.57	9.40	H
	2510	-58.97	-13	-45.97	-71.25	-66.68	0.74	10.60	H
	3346	-57.16	-13	-44.16	-72.76	-66.76	0.85	12.60	H
	1672	-63.14	-13	-50.14	-69.97	-69.82	0.57	9.40	V
	2510	-59.77	-13	-46.77	-71.27	-67.48	0.74	10.60	V
	3346	-57.83	-13	-44.83	-72.44	-67.43	0.85	12.60	V
Highest	1697.6	-62.29	-13	-49.29	-69.86	-68.97	0.57	9.40	H
	2546.4	-57.84	-13	-44.84	-70.12	-65.55	0.74	10.60	H
	3395.2	-56.70	-13	-43.70	-72.30	-66.30	0.85	12.60	H
	1697.6	-63.51	-13	-50.51	-70.34	-70.19	0.57	9.40	V
	2546.4	-59.77	-13	-46.77	-71.27	-67.48	0.74	10.60	V
	3395.2	-58.33	-13	-45.33	-72.94	-67.93	0.85	12.60	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	3700.4	-51.98	-13	-38.98	-72.31	-63.71	0.87	12.60	H
	5550.6	-51.74	-13	-38.74	-74.61	-63.77	1.07	13.10	H
	7400.8	-50.47	-13	-37.47	-75.60	-60.08	1.69	11.30	H
	3700.4	-48.80	-13	-35.80	-70.36	-60.53	0.87	12.6	V
	5550.6	-51.64	-13	-38.64	-74.39	-63.67	1.07	13.1	V
	7400.8	-51.08	-13	-38.08	-75.99	-60.51	1.87	11.3	V
Middle	3760	-51.74	-13	-38.74	-72.07	-63.47	0.87	12.60	H
	5640	-50.69	-13	-37.69	-73.56	-62.72	1.07	13.10	H
	7520	-50.93	-13	-37.93	-76.06	-60.54	1.69	11.30	H
	3760	-50.35	-13	-37.35	-71.91	-62.08	0.87	12.6	V
	5640	-50.88	-13	-37.88	-73.63	-62.91	1.07	13.1	V
	7520	-50.98	-13	-37.98	-75.89	-60.41	1.87	11.3	V
Highest	3819.6	-51.66	-13	-38.66	-71.99	-63.39	0.87	12.60	H
	5729.4	-51.21	-13	-38.21	-74.08	-63.24	1.07	13.10	H
	7639.2	-51.18	-13	-38.18	-76.31	-60.79	1.69	11.30	H
	3819.6	-51.12	-13	-38.12	-72.68	-62.85	0.87	12.6	V
	5729.4	-51.35	-13	-38.35	-74.1	-63.38	1.07	13.1	V
	7639.2	-50.80	-13	-37.80	-75.71	-60.23	1.87	11.3	V

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

GSM1900 (EDGE class 8)									
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	3700.4	-52.99	-13	-39.99	-73.32	-64.72	0.87	12.60	H
	5550.6	-51.00	-13	-38.00	-73.87	-63.03	1.07	13.10	H
	7400.8	-51.21	-13	-38.21	-76.34	-60.82	1.69	11.30	H
	3700.4	-51.63	-13	-38.63	-73.19	-63.36	0.87	12.6	V
	5550.6	-51.57	-13	-38.57	-74.32	-63.60	1.07	13.1	V
	7400.8	-50.48	-13	-37.48	-75.39	-59.91	1.87	11.3	V
Middle	3760	-53.57	-13	-40.57	-73.90	-65.30	0.87	12.60	H
	5640	-50.95	-13	-37.95	-73.82	-62.98	1.07	13.10	H
	7520	-51.15	-13	-38.15	-76.28	-60.76	1.69	11.30	H
	3760	-51.60	-13	-38.60	-73.16	-63.33	0.87	12.6	V
	5640	-51.59	-13	-38.59	-74.34	-63.62	1.07	13.1	V
	7520	-51.61	-13	-38.61	-76.52	-61.04	1.87	11.3	V
Highest	3819.6	-52.56	-13	-39.56	-72.89	-64.29	0.87	12.60	H
	5729.4	-50.69	-13	-37.69	-73.56	-62.72	1.07	13.10	H
	7639.2	-50.67	-13	-37.67	-75.80	-60.28	1.69	11.30	H
	3819.6	-52.30	-13	-39.30	-73.86	-64.03	0.87	12.6	V
	5729.4	-50.50	-13	-37.50	-73.25	-62.53	1.07	13.1	V
	7639.2	-51.04	-13	-38.04	-75.95	-60.47	1.87	11.3	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	1652.8	-62.50	-13	-49.50	-70.07	-69.18	0.57	9.40	H
	2479.2	-58.50	-13	-45.50	-70.78	-66.21	0.74	10.60	H
	3305.6	-57.35	-13	-44.35	-72.95	-66.95	0.85	12.60	H
	1652.8	-63.45	-13	-50.45	-70.28	-70.13	0.57	9.40	V
	2479.2	-58.98	-13	-45.98	-70.48	-66.69	0.74	10.60	V
	3305.6	-57.12	-13	-44.12	-71.73	-66.72	0.85	12.60	V
Middle	1672	-62.56	-13	-49.56	-70.13	-69.24	0.57	9.40	H
	2510	-58.99	-13	-45.99	-71.27	-66.70	0.74	10.60	H
	3346	-55.91	-13	-42.91	-71.51	-65.51	0.85	12.60	H
	1672	-63.34	-13	-50.34	-70.17	-70.02	0.57	9.40	V
	2510	-59.55	-13	-46.55	-71.05	-67.26	0.74	10.60	V
	3346	-58.28	-13	-45.28	-72.89	-67.88	0.85	12.60	V
Highest	1693.2	-62.24	-13	-49.24	-69.81	-68.92	0.57	9.40	H
	2539.8	-58.60	-13	-45.60	-70.88	-66.31	0.74	10.60	H
	3386.4	-56.96	-13	-43.96	-72.56	-66.56	0.85	12.60	H
	1693.2	-63.71	-13	-50.71	-70.54	-70.39	0.57	9.40	V
	2539.8	-59.66	-13	-46.66	-71.16	-67.37	0.74	10.60	V
	3386.4	-57.43	-13	-44.43	-72.04	-67.03	0.85	12.60	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	3704.8	-53.08	-13	-40.08	-73.41	-64.81	0.87	12.60	H
	5557.2	-42.60	-13	-29.60	-65.47	-54.63	1.07	13.10	H
	7409.6	-50.86	-13	-37.86	-75.99	-60.47	1.69	11.30	H
	3704.8	-51.29	-13	-38.29	-72.85	-63.02	0.87	12.6	V
	5557.2	-38.08	-13	-25.08	-61.54	-50.11	1.07	13.1	V
	7409.6	-51.02	-13	-38.02	-75.93	-60.45	1.87	11.3	V
Middle	3760	-53.08	-13	-40.08	-73.41	-64.81	0.87	12.60	H
	5640	-41.26	-13	-28.26	-64.13	-53.29	1.07	13.10	H
	7520	-50.56	-13	-37.56	-75.69	-60.17	1.69	11.30	H
	3760	-51.62	-13	-38.62	-73.18	-63.35	0.87	12.6	V
	5640	-34.90	-13	-21.90	-59.64	-46.93	1.07	13.1	V
	7520	-51.39	-13	-38.39	-76.3	-60.82	1.87	11.3	V
Highest	3815.2	-53.50	-13	-40.50	-73.83	-65.23	0.87	12.60	H
	5722.8	-42.33	-13	-29.33	-65.20	-54.36	1.07	13.10	H
	7630.4	-50.72	-13	-37.72	-75.85	-60.33	1.69	11.30	H
	3815.2	-51.89	-13	-38.89	-73.45	-63.62	0.87	12.6	V
	5722.8	-38.87	-13	-25.87	-62.03	-50.90	1.07	13.1	V
	7630.4	-51.35	-13	-38.35	-76.26	-60.78	1.87	11.3	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	3424.8	-53.06	-13	-40.06	-71.84	-64.81	0.85	12.60	H
	5137.2	-47.44	-13	-34.44	-70.73	-59.19	0.95	12.70	H
	6849.6	-50.83	-13	-37.83	-75.21	-61.35	1.18	11.70	H
	3424.8	-51.33	-13	-38.33	-72.42	-63.08	0.85	12.6	V
	5137.2	-51.35	-13	-38.35	-70.58	-63.10	0.95	12.7	V
	6849.6	-51.08	-13	-38.08	-75.39	-61.60	1.18	11.7	V
Middle	3465.2	-53.29	-13	-40.29	-72.07	-65.04	0.85	12.60	H
	5197.8	-46.65	-13	-33.65	-69.94	-58.40	0.95	12.70	H
	6930.4	-51.46	-13	-38.46	-75.84	-61.98	1.18	11.70	H
	3465.2	-51.03	-13	-38.03	-72.12	-62.78	0.85	12.6	V
	5197.8	-51.48	-13	-38.48	-70.71	-63.23	0.95	12.7	V
	6930.4	-51.43	-13	-38.43	-75.74	-61.95	1.18	11.7	V
Highest	3505.2	-53.78	-13	-40.78	-72.56	-65.53	0.85	12.60	H
	5257.8	-45.17	-13	-32.17	-68.46	-56.92	0.95	12.70	H
	7010.4	-52.12	-13	-39.12	-76.50	-62.64	1.18	11.70	H
	3505.2	-50.92	-13	-37.92	-72.01	-62.67	0.85	12.6	V
	5257.8	-45.33	-13	-32.33	-65.54	-57.08	0.95	12.7	V
	7010.4	-51.73	-13	-38.73	-76.04	-62.25	1.18	11.7	V

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