



FCC RF Test Report

APPLICANT : TCL Communication Ltd.
EQUIPMENT : Tablet PC
BRAND NAME : ALCATEL ONETOUCH
MODEL NAME : 9015W
MARKETING NAME : ALCATEL ONETOUCH POP™ 7 LTE
FCC ID : 2ACCJB052
STANDARD : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)
CLASSIFICATION : PCS Licensed Transmitter (PCB)

The product was received on Jan. 22, 2016 and testing was completed on Feb. 18, 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.

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TABLE OF CONTENTS

- 1 GENERAL DESCRIPTION 6**
 - 1.1 Applicant..... 6
 - 1.2 Manufacturer 6
 - 1.3 Product Feature of Equipment Under Test 6
 - 1.4 Product Specification of Equipment Under Test 7
 - 1.5 Modification of EUT 7
 - 1.6 Specification of Accessory 8
 - 1.7 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator 9
 - 1.8 Testing Location 9
 - 1.9 Applicable Standards 10
- 2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST 11**
 - 2.1 Test Mode..... 11
 - 2.2 Connection Diagram of Test System 12
 - 2.3 Support Unit used in test configuration 13
 - 2.4 Measurement Results Explanation Example 13
- 3 CONDUCTED TEST RESULT 14**
 - 3.1 Measuring Instruments 14
 - 3.2 Test Setup 14
 - 3.3 Test Result of Conducted Test 14
 - 3.4 Conducted Output Power 15
 - 3.5 Peak-to-Average Ratio 15
 - 3.6 99% Occupied Bandwidth and 26dB Bandwidth Measurement..... 16
 - 3.7 Conducted Band Edge 17
 - 3.8 Conducted Spurious Emission 18
 - 3.9 Frequency Stability..... 19
- 4 RADIATED TEST ITEMS 20**
 - 4.1 Measuring Instruments 20
 - 4.2 Test Setup 20
 - 4.3 Test Result of Radiated Test 20
 - 4.4 Effective Radiated Power and Effective Isotropic Radiated Power Measurement 21
 - 4.5 Field Strength of Spurious Radiation Measurement 23
- 5 LIST OF MEASURING EQUIPMENT 24**
- 6 UNCERTAINTY OF EVALUATION 25**
- APPENDIX A. TEST RESULTS OF CONDUCTED TEST**
- APPENDIX B. TEST RESULTS OF RADIATED TEST**
- APPENDIX C. TEST SETUP PHOTOGRAPHS**



SUMMARY OF TEST RESULT

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



Report Section	FCC Rule	Description	Limit	Result	Remark
4.4	§22.913(a)(2)	Effective Radiated Power	< 7 Watts	PASS	-
	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power	< 1 Watts	PASS	-
4.5	§2.1053 §22.917(a) §24.238(a) §27.53(h)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 17.85 dB at 3760.000 MHz



1 General Description

1.1 Applicant

TCL Communication Ltd.

5F, C-Tower, No. 232, Liang Jing Road, ZhangJiang High-Tech Park, Pudong Area, Shanghai, 201203, P.R.China

1.2 Manufacturer

TCL Communication Ltd.

5F, C-Tower, No. 232, Liang Jing Road, ZhangJiang High-Tech Park, Pudong Area, Shanghai, 201203, P.R.China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Tablet PC
Brand Name	ALCATEL ONETOUCH
Model Name	9015W
Marketing Name	ALCATEL ONETOUCH POP™ 7 LTE
FCC ID	2ACCJB052
EUT supports Radios application	GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/ HSPA+(16QAM uplink is not supported)/LTE/ WLAN2.4GHz 802.11b/g/n HT20/ WLAN 5GHz 802.11a/n HT20/HT40/ Bluetooth v3.0+EDR/Bluetooth v4.1 LE
IMEI Code	Conducted:014620000104330 Radiation:014620000104355 22H 014620000104314 24E 014620000104298 27L ERP/EIRP: 014620000104298
HW Version	V03
SW Version	BAW
EUT Stage	Production Unit

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	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	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	GPRS/EDGE: 850: 34.18 dBm 1900: 31.25 dBm WCDMA: Band V: 24.42 dBm Band II: 23.74 dBm Band IV: 23.63 dBm
Antenna Type	Monopole Antenna
Type of Modulation	GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: QPSK (Uplink) HSDPA/ DC-HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) HSPA+: 16QAM (Uplink is not supported) DC-HSDPA: 64QAM

1.5 Modification of EUT

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



1.6 Specification of Accessory

Specification of Accessory				
AC Adapter 1	Brand Name	ALCATEL ONETOUCH	Model Name	UC13US
	Power Rating	I/P: 100 - 240 Vac, 400mA, O/P: 5 Vdc, 2000 mA		
	P/N	CBA0059AG0C2		
AC Adapter 2	Brand Name	ALCATEL ONETOUCH	Model Name	UC13US
	Power Rating	I/P: 100 - 240 Vac, 500mA, O/P: 5 Vdc, 2000 mA		
	P/N	CBA0059AG0C1		
Battery	Brand Name	ALCATEL ONETOUCH	Model Name	TLp032B2
	Power Rating	3.7 Vdc, 3240 mAh		
USB Cable	Brand Name	NA	Model Name	NA
	Signal Line Type	0.8meter, non-shielded cable, with w/o ferrite core		



1.7 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 GPRS class 8	GMSK	0.2512	0.0167 ppm	243KGXW
Part 22H	GSM850 EDGE class 8	8PSK	0.0440	0.0167 ppm	241KG7W
Part 22H	WCDMA Band V RMC 12.2Kbps	QPSK	0.0314	0.0167 ppm	4M13F9W
Part 24E	GSM1900 GPRS class 8	GMSK	1.3396	0.0080 ppm	244KGXW
Part 24E	GSM1900 EDGE class 8	8PSK	0.4020	0.0064 ppm	243KG7W
Part 24E	WCDMA Band II RMC 12.2Kbps	QPSK	0.2645	0.0101 ppm	4M15F9W
Part 27L	WCDMA Band IV RMC 12.2Kbps	QPSK	0.2637	0.0092 ppm	4M16F9W

1.8 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 (SHENZHEN) INC.	
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China TEL: +86-755-3320-2398	
Test Site No.	Sporton Site No.	FCC Registration No.
	03CH01-SZ	831040



1.9 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

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.

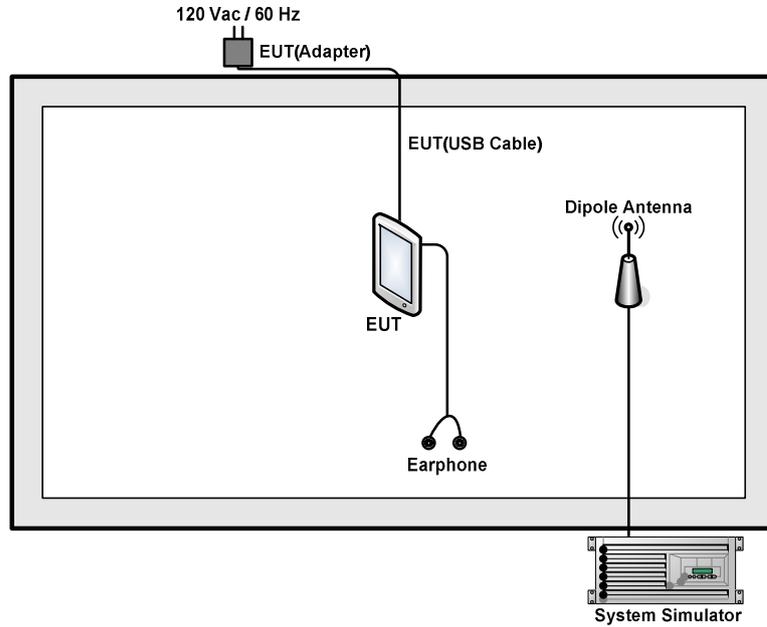
All modes and data rates and positions were investigated.

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

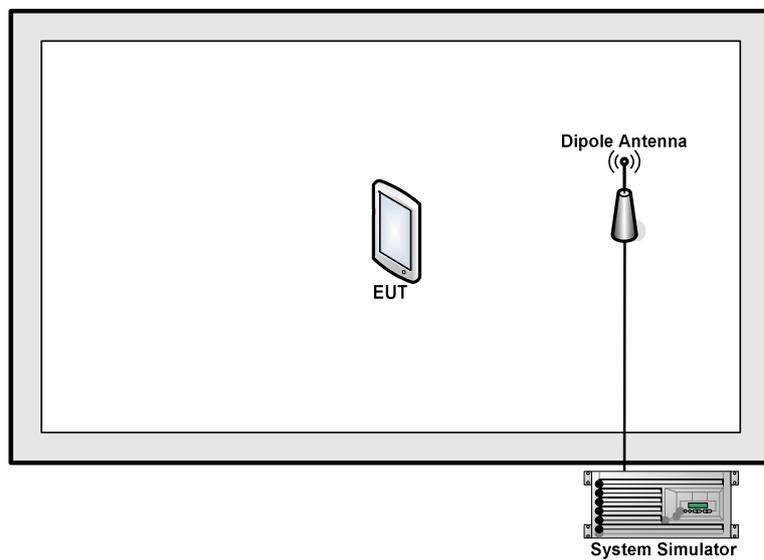
Test Modes		
Band	Radiated TCs	Conducted TCs
GSM 850	<ul style="list-style-type: none">■ GPRS class 8 Link■ EDGE class 8 Link	<ul style="list-style-type: none">■ GPRS class 8 Link■ EDGE class 8 Link
GSM 1900	<ul style="list-style-type: none">■ GPRS class 8 Link■ EDGE class 8 Link	<ul style="list-style-type: none">■ GPRS class 8 Link■ EDGE class 8 Link
WCDMA Band V	<ul style="list-style-type: none">■ RMC 12.2Kbps Link	<ul style="list-style-type: none">■ RMC 12.2Kbps Link
WCDMA Band II	<ul style="list-style-type: none">■ RMC 12.2Kbps Link	<ul style="list-style-type: none">■ RMC 12.2Kbps Link
WCDMA Band IV	<ul style="list-style-type: none">■ RMC 12.2Kbps Link	<ul style="list-style-type: none">■ RMC 12.2Kbps Link

2.2 Connection Diagram of Test System

22(H), 27(L)



24(E)





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
3.	Earphone	Lenovo	SH100	N/A	Unshielded, 1.2 m	N/A

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.

$$\text{Offset} = \text{RF cable loss} + \text{attenuator factor}.$$

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

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 4.5 + 10 = 14.5 \text{ (dB)} \end{aligned}$$

3 Conducted Test Result

3.1 Measuring Instruments

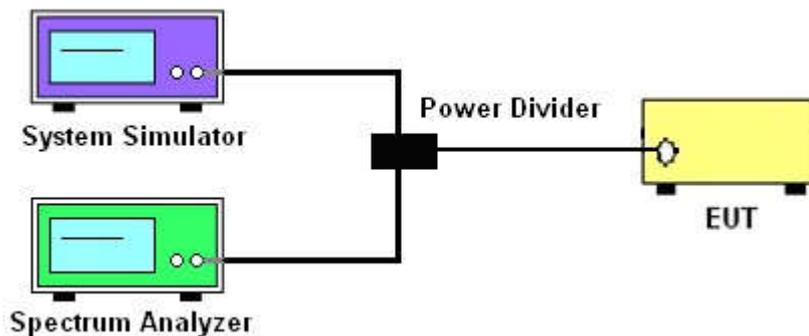
See list of measuring instruments of this test report.

3.2 Test Setup

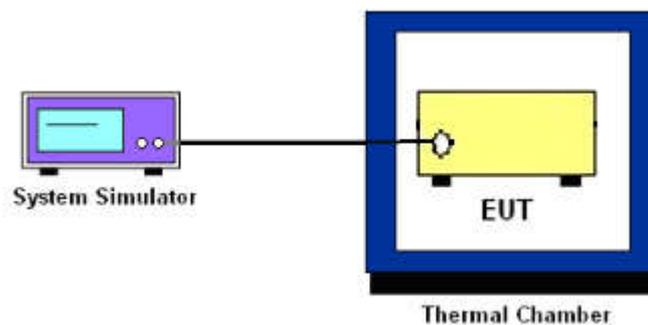
3.2.1 Conducted Output Power



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 $43 + 10\log(P)$ dB below the transmitter power P(Watts)
= $P(W) - [43 + 10\log(P)]$ (dB)
= $[30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (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 10th 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 $43 + 10\log(P)$ dB below the transmitter power P(Watts)
= $P(W) - [43 + 10\log(P)]$ (dB)
= $[30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (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 $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) 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 $25\pm 5^{\circ}\text{C}$ 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.

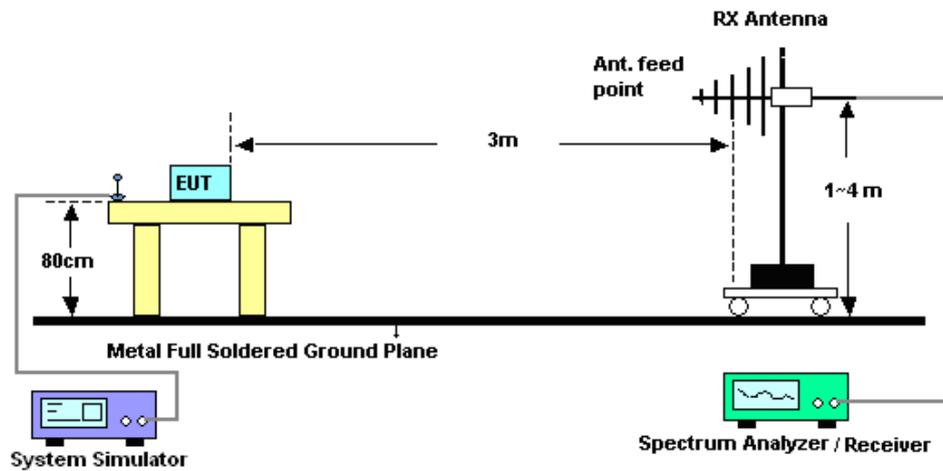
4 Radiated Test Items

4.1 Measuring Instruments

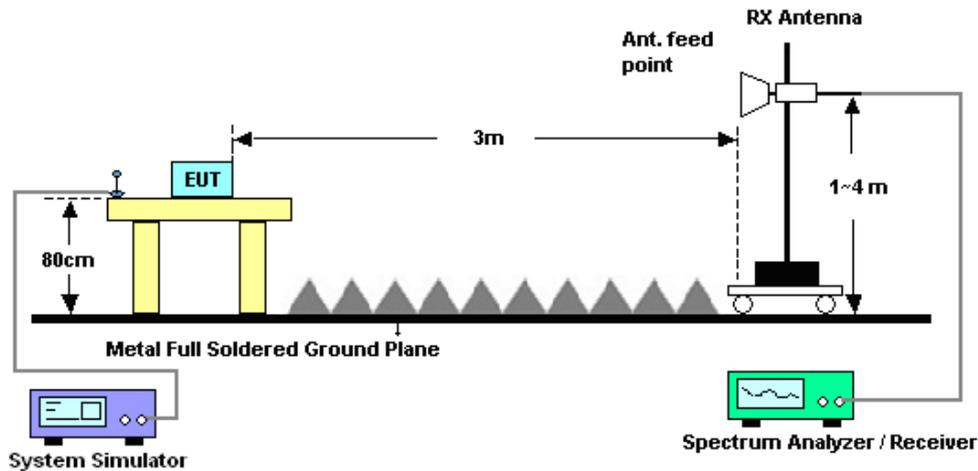
See list of measuring instruments of this test report.

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, $EIRP = LVL + \text{Correction factor}$ 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. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
12. $ERP \text{ (dBm)} = EIRP - 2.15$
13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
14. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
= $P(W) - [43 + 10\log(P)] \text{ (dB)}$
= $[30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
= -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	Jan. 28, 2016	May 04, 2016	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Aug. 07, 2015	Jan. 28, 2016	Aug. 06, 2016	Conducted (TH01-SZ)
Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz;Max 30dBm	Jun. 07, 2015	Feb. 17, 2016~ Feb. 18, 2016	Jun. 06, 2016	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz-2GHz	Oct. 17, 2015	Feb. 17, 2016~ Feb. 18, 2016	Oct. 16, 2016	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1285	1GHz~18GHz	Jan. 11, 2016	Feb. 17, 2016~ Feb. 18, 2016	Jan. 10, 2017	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Aug.19, 2015	Feb. 17, 2016~ Feb. 18, 2016	Aug. 18, 2016	Radiation (03CH01-SZ)
Amplifier	HP	8447F	3113A04622	9kHz ~1300MHz / 30 dB	Aug. 07, 2015	Feb. 17, 2016~ Feb. 18, 2016	Aug. 06, 2016	Radiation (03CH01-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Jan. 12, 2016	Feb. 17, 2016~ Feb. 18, 2016	Jan. 11, 2017	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	61601000198 5	N/A	NCR	Feb. 17, 2016~ Feb. 18, 2016	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Feb. 17, 2016~ Feb. 18, 2016	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Feb. 17, 2016~ Feb. 18, 2016	NCR	Radiation (03CH01-SZ)

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% ($U = 2Uc(y)$)	4.8 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
GPRS class 8	34.14	34.18	34.16	31.18	31.23	31.25
GPRS class 10	30.72	30.81	30.80	27.95	27.97	28.02
GPRS class 11	28.31	28.42	28.33	25.72	25.77	25.81
GPRS class 12	27.13	27.20	26.90	24.00	24.07	24.15
EGPRS class 8	26.65	26.56	26.58	25.69	25.74	25.82
EGPRS class 10	26.03	25.87	25.93	25.09	25.10	25.21
EGPRS class 11	24.81	24.69	24.74	23.94	23.94	24.04
EGPRS class 12	23.60	23.53	23.53	22.77	22.78	22.84

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
RMC 12.2Kbps	24.40	24.31	24.42	23.68	23.59	23.74	23.58	23.43	23.63
HSDPA Subtest-1	23.03	22.96	23.02	22.03	21.84	21.94	21.95	21.99	22.16
HSDPA Subtest-2	23.19	23.17	23.06	22.11	22.00	22.03	21.96	22.01	22.18
HSDPA Subtest-3	22.66	22.66	22.61	21.63	21.51	21.55	21.57	21.54	21.72
HSDPA Subtest-4	22.64	22.65	22.62	21.63	21.52	21.55	21.57	21.54	21.72
DC-HSDPA Subtest-1	21.81	21.86	21.97	21.93	21.82	21.80	21.69	21.68	21.95
DC-HSDPA Subtest-2	21.85	21.90	22.01	21.85	21.86	21.86	21.69	21.65	21.84
DC-HSDPA Subtest-3	21.85	21.98	21.95	21.95	21.78	21.80	21.70	21.62	21.87
DC-HSDPA Subtest-4	21.85	21.89	22.03	21.82	21.86	21.82	21.75	21.71	21.80
HSUPA Subtest-1	23.00	22.70	22.81	22.05	21.84	21.70	21.95	21.68	22.72
HSUPA Subtest-2	21.88	21.97	21.91	20.61	20.54	20.51	20.87	20.88	21.16
HSUPA Subtest-3	21.85	21.15	21.71	21.05	20.94	21.02	20.49	20.42	20.39
HSUPA Subtest-4	22.63	22.21	22.07	21.25	20.89	21.47	20.94	21.55	21.42
HSUPA Subtest-5	23.00	22.90	22.90	22.20	21.90	22.00	22.00	22.00	22.20

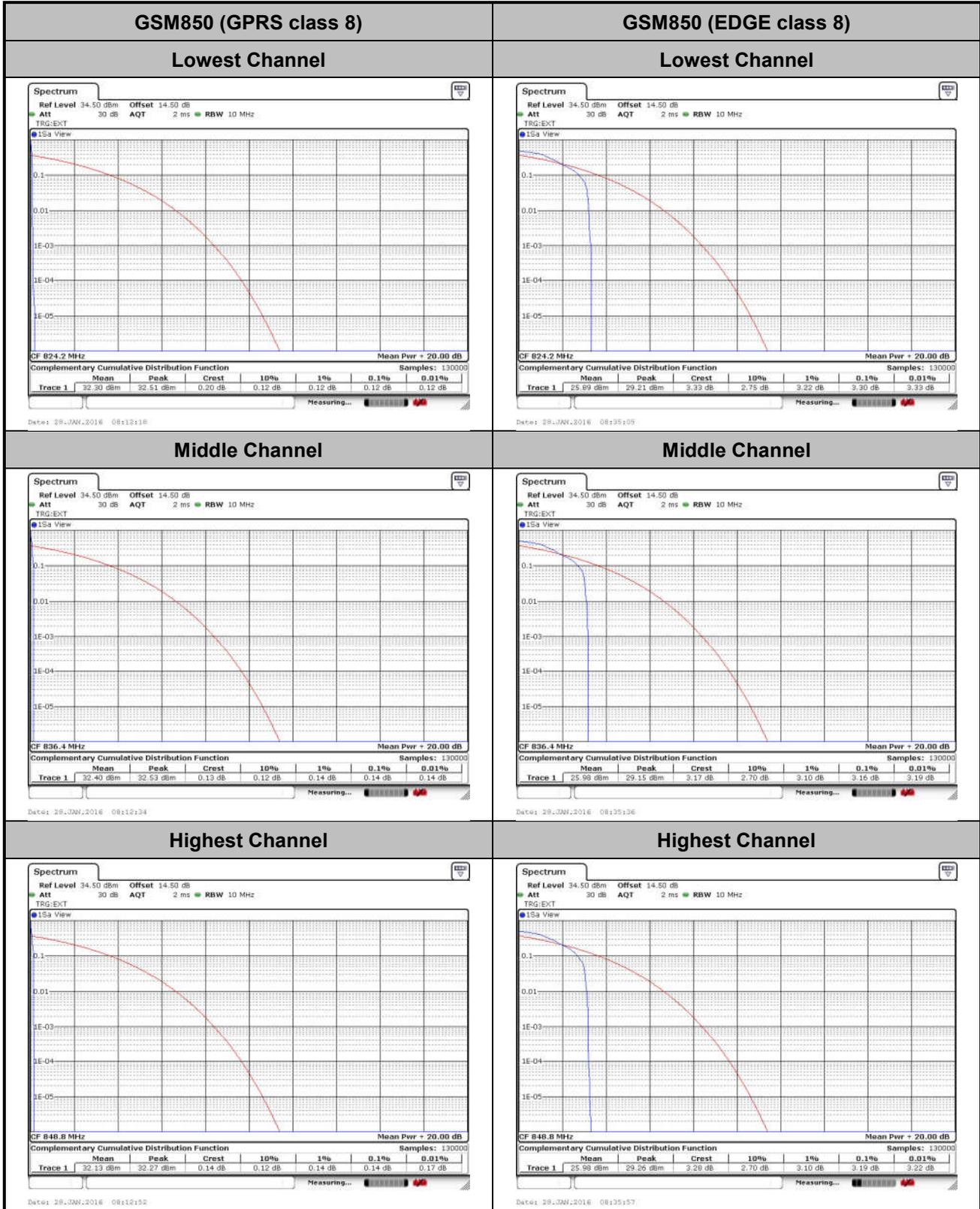


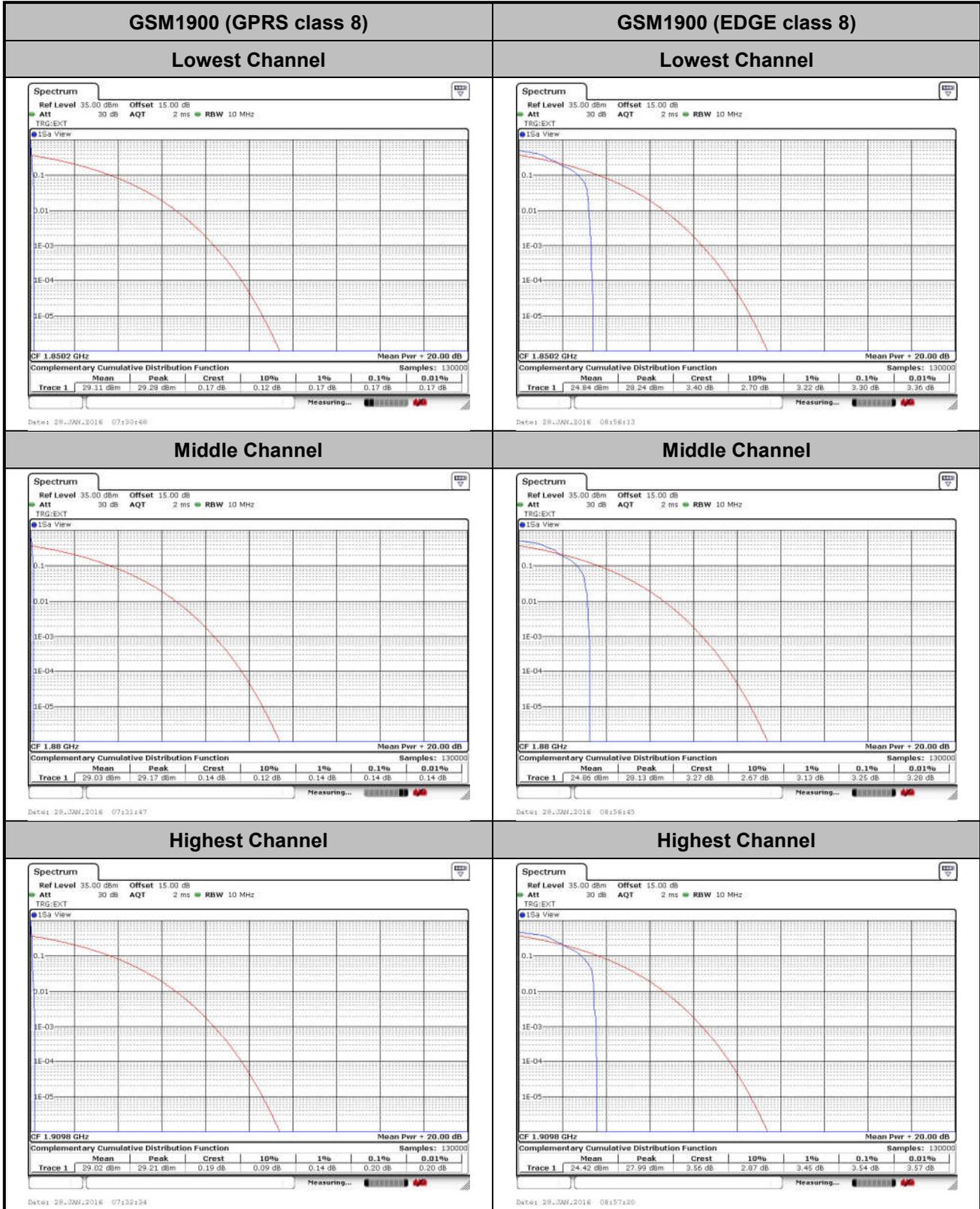
A1. GSM

Peak-to-Average Ratio

Mode	GSM850		Limit: 13dB
Mod.	GPRS class 8	EDGE class 8	Result
Lowest CH	0.12	3.30	PASS
Middle CH	0.14	3.16	
Highest CH	0.14	3.19	

Mode	GSM1900		Limit: 13dB
Mod.	GPRS class 8	EDGE class 8	Result
Lowest CH	0.17	3.30	PASS
Middle CH	0.14	3.25	
Highest CH	0.20	3.54	



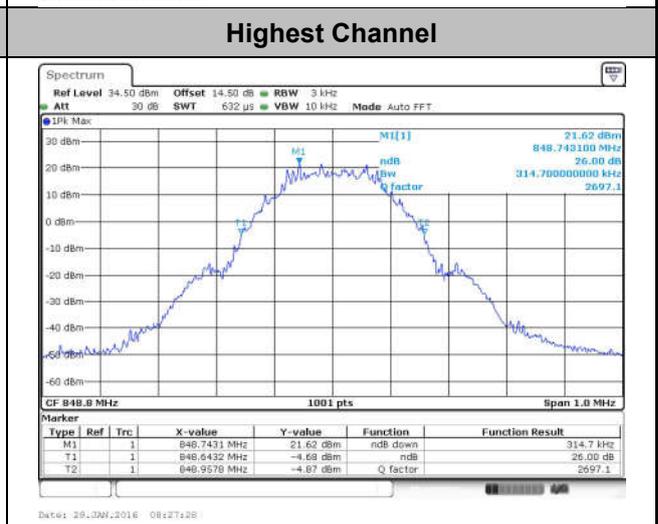
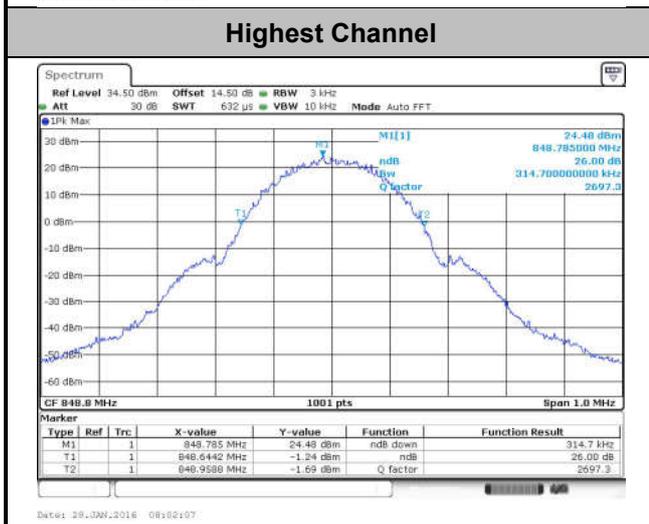
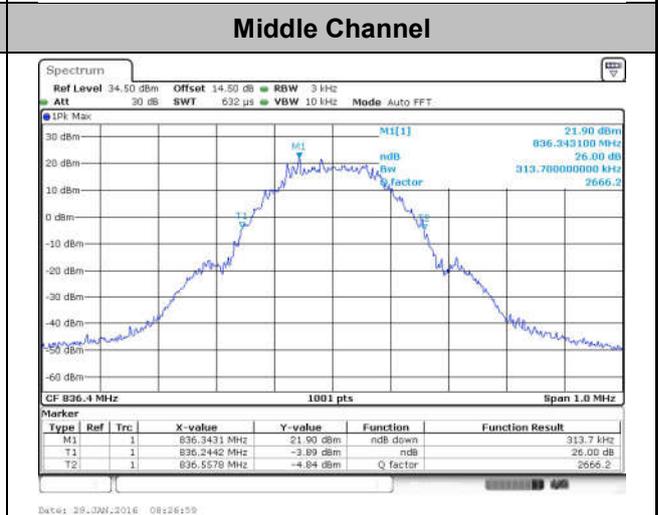
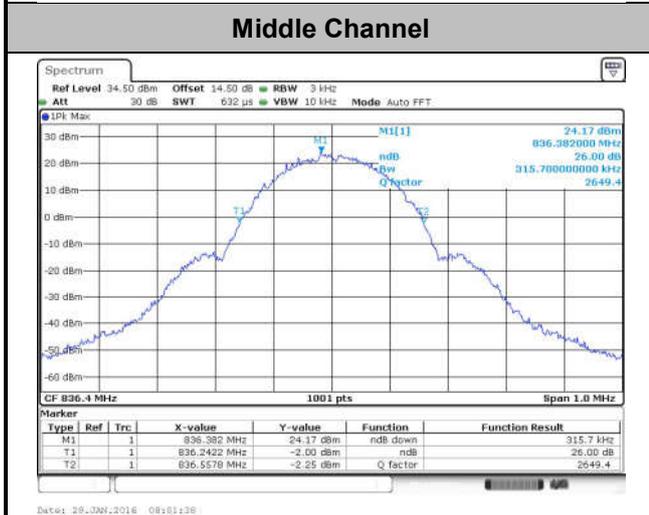
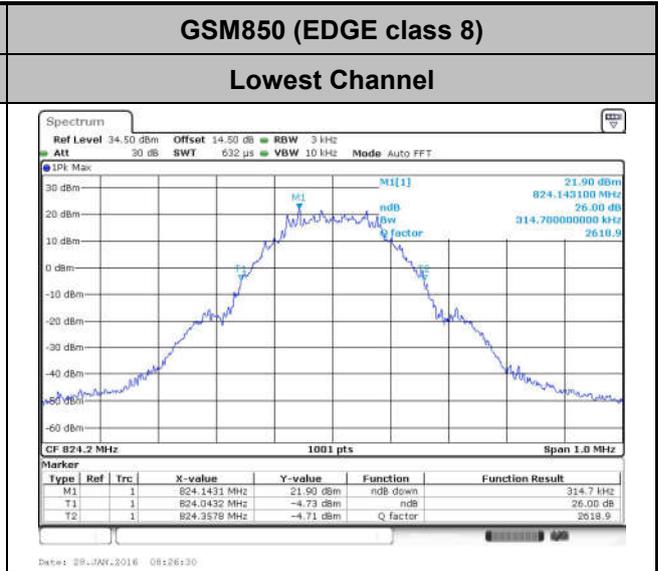
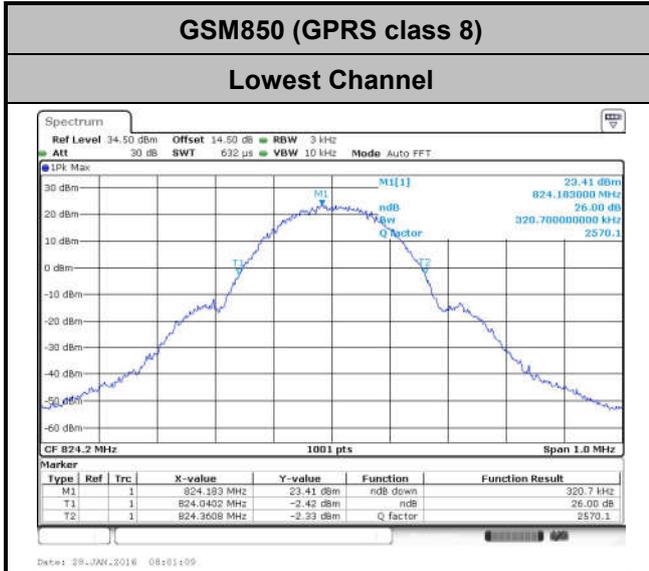


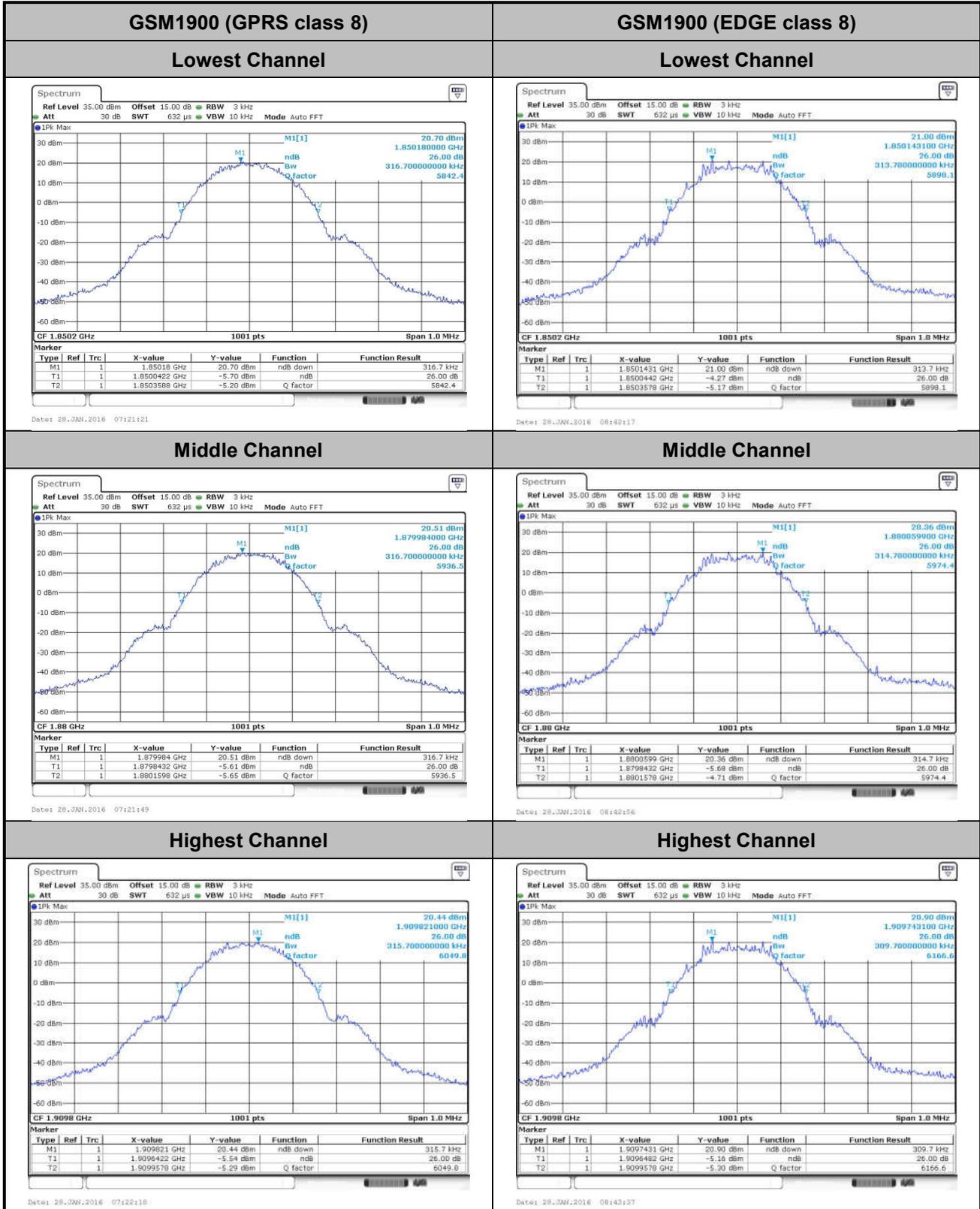


26dB Bandwidth

Mode	GSM850	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.321	0.315
Middle CH	0.316	0.314
Highest CH	0.315	0.315

Mode	GSM1900	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.317	0.314
Middle CH	0.317	0.315
Highest CH	0.316	0.310



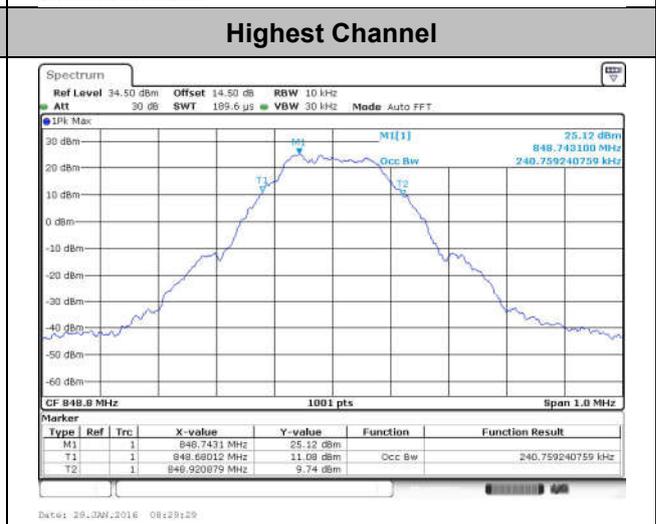
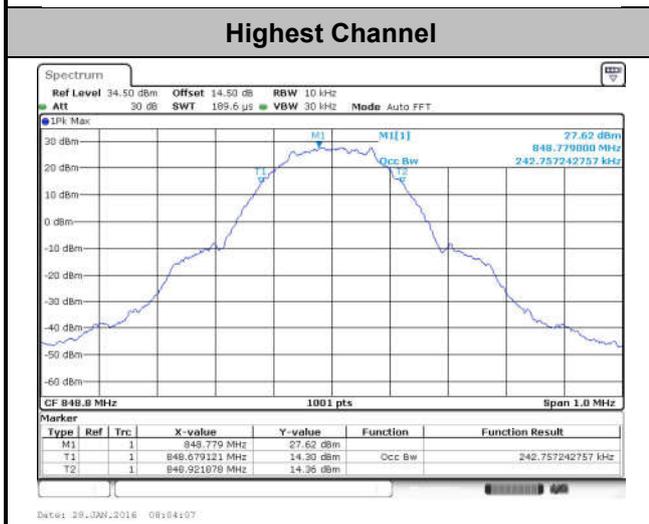
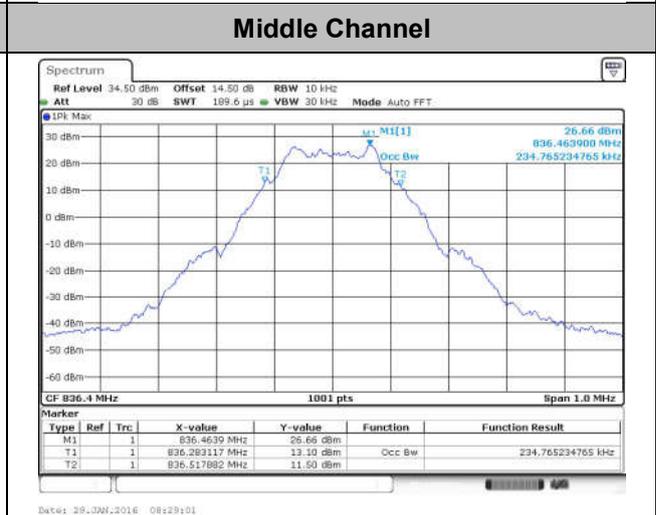
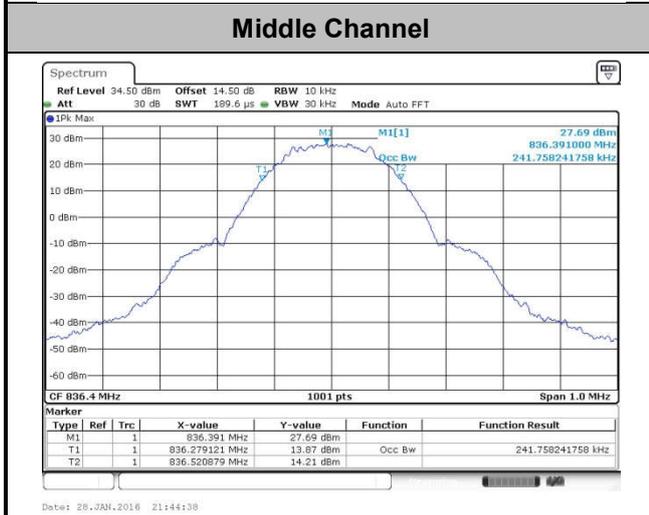
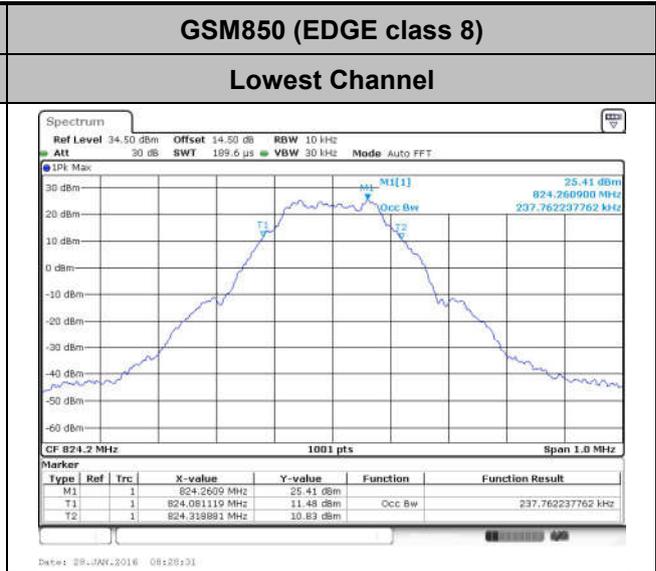
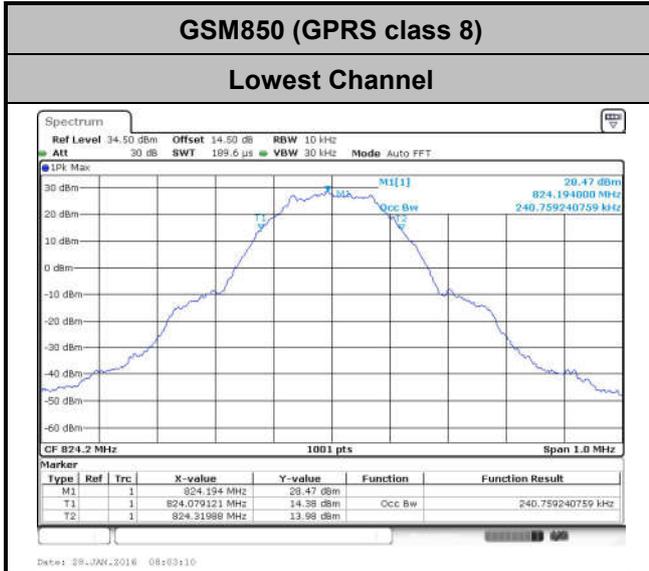




Occupied Bandwidth

Mode	GSM850	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.241	0.238
Middle CH	0.242	0.235
Highest CH	0.243	0.241

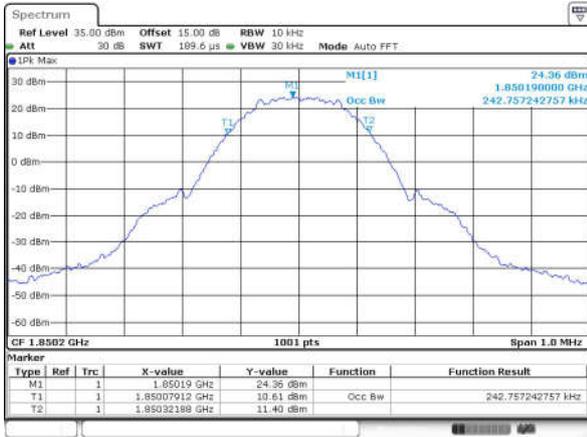
Mode	GSM1900	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.243	0.238
Middle CH	0.244	0.236
Highest CH	0.243	0.243





GSM1900 (GPRS class 8)

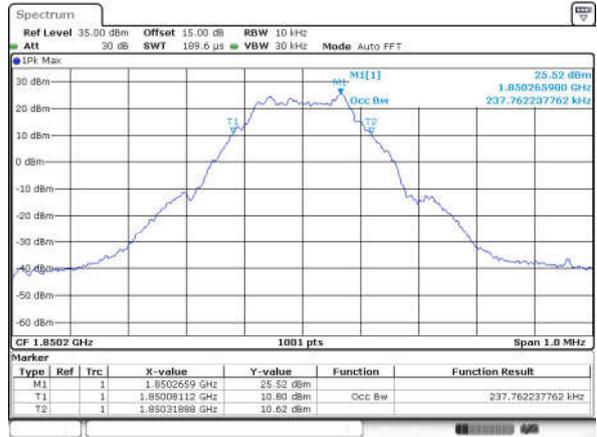
Lowest Channel



Date: 28_JAN.2016 07:41:33

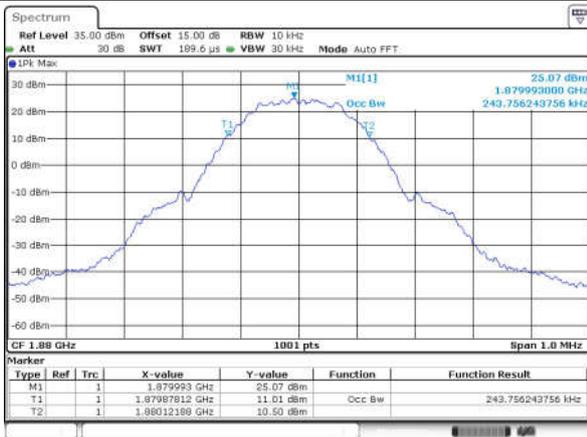
GSM1900 (EDGE class 8)

Lowest Channel



Date: 28_JAN.2016 08:44:25

Middle Channel



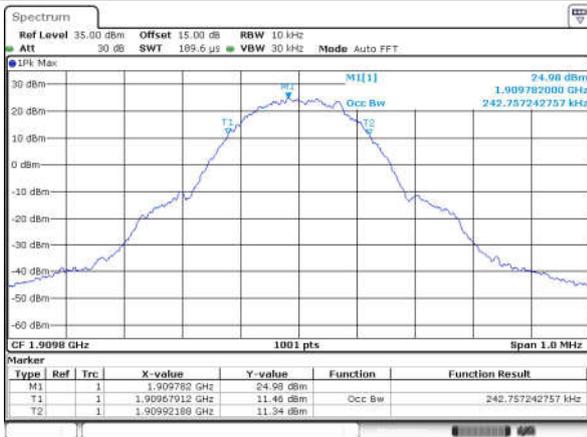
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Middle Channel



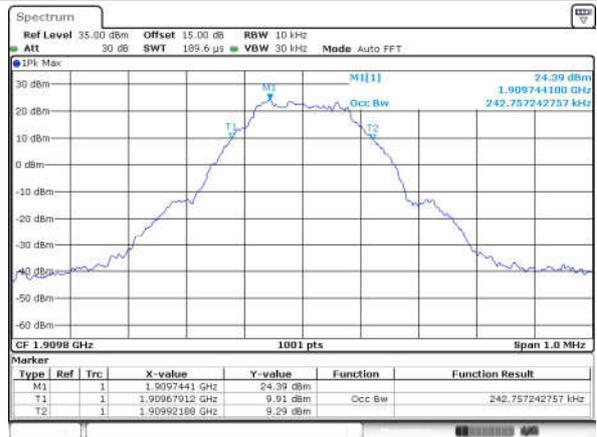
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Highest Channel



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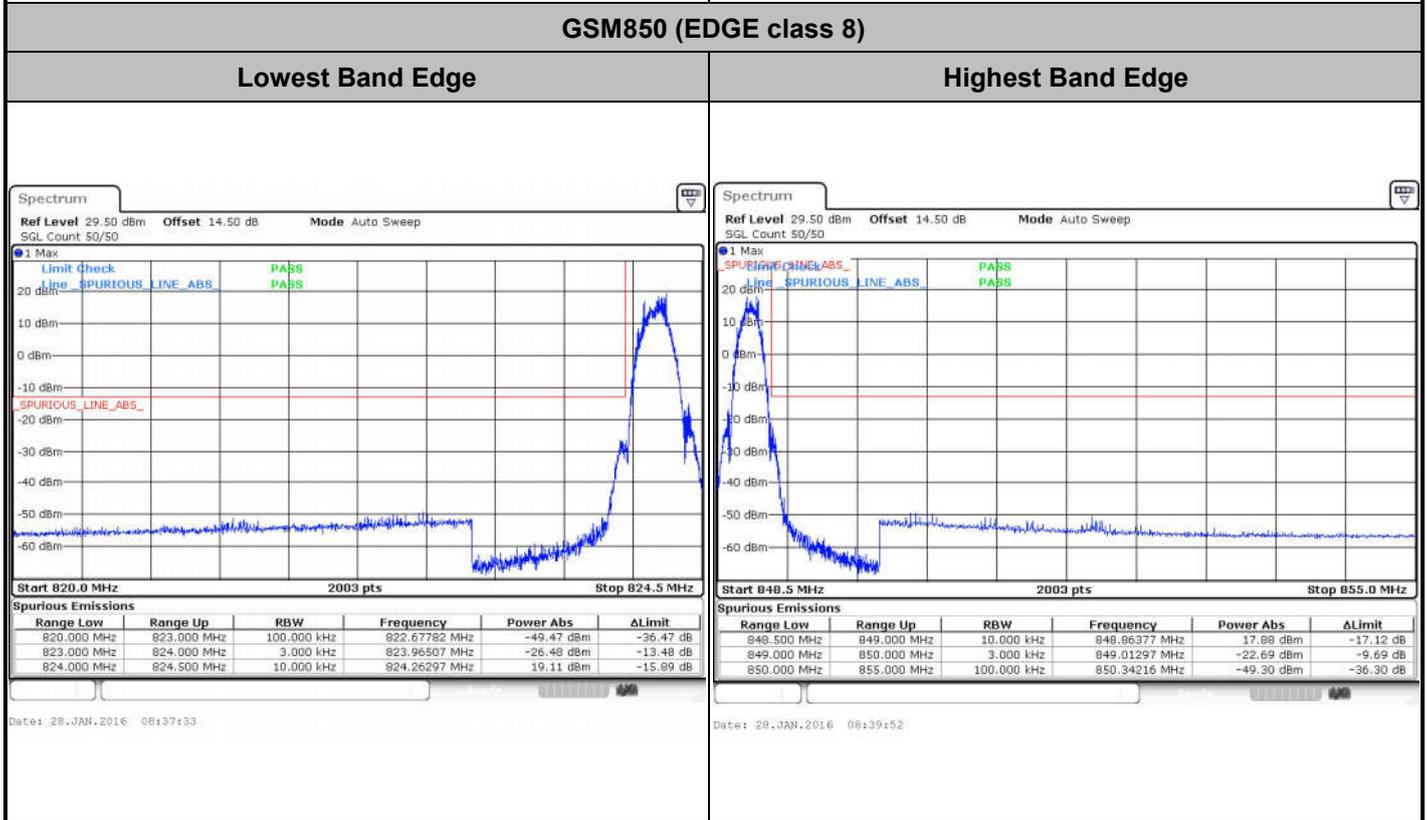
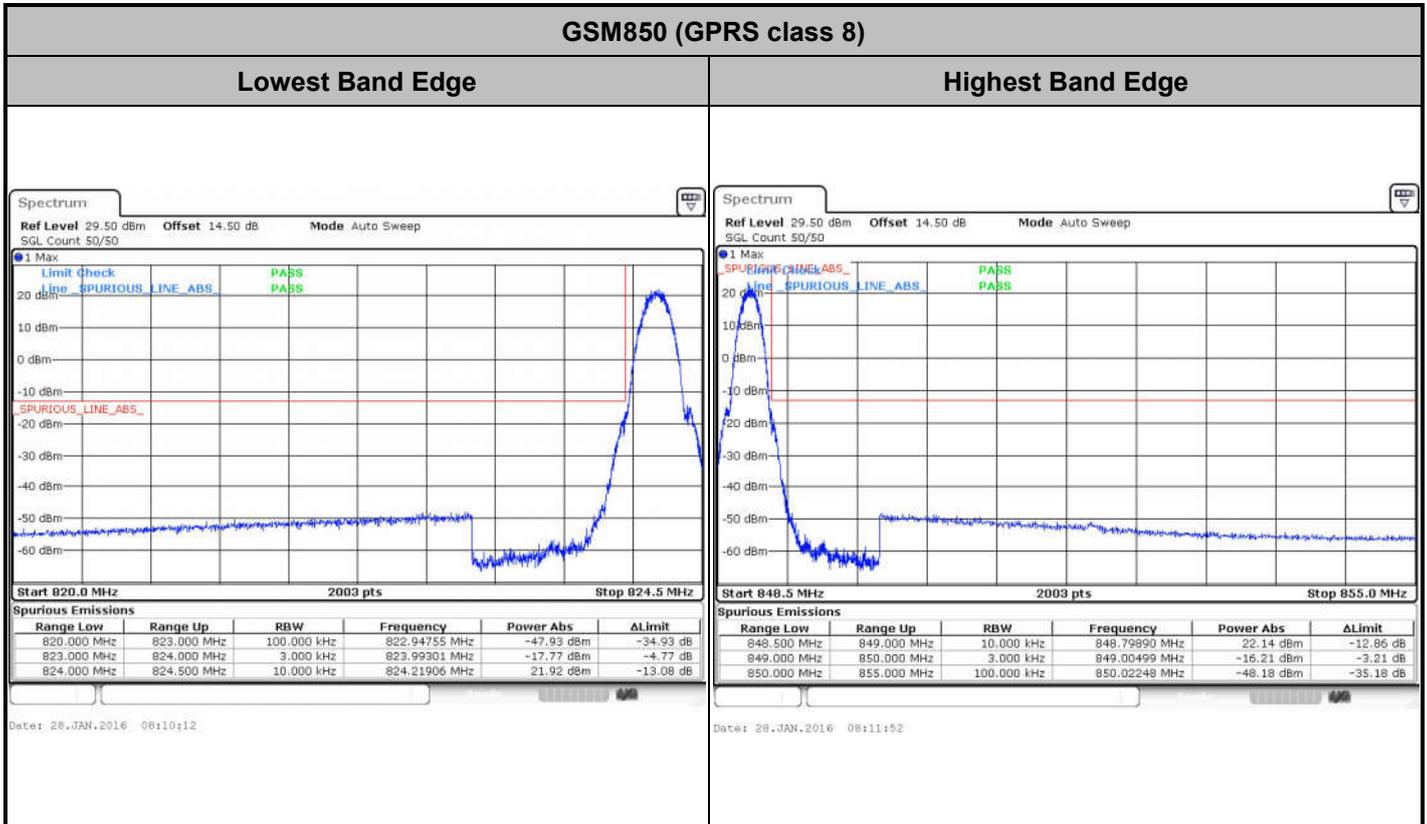
Highest Channel



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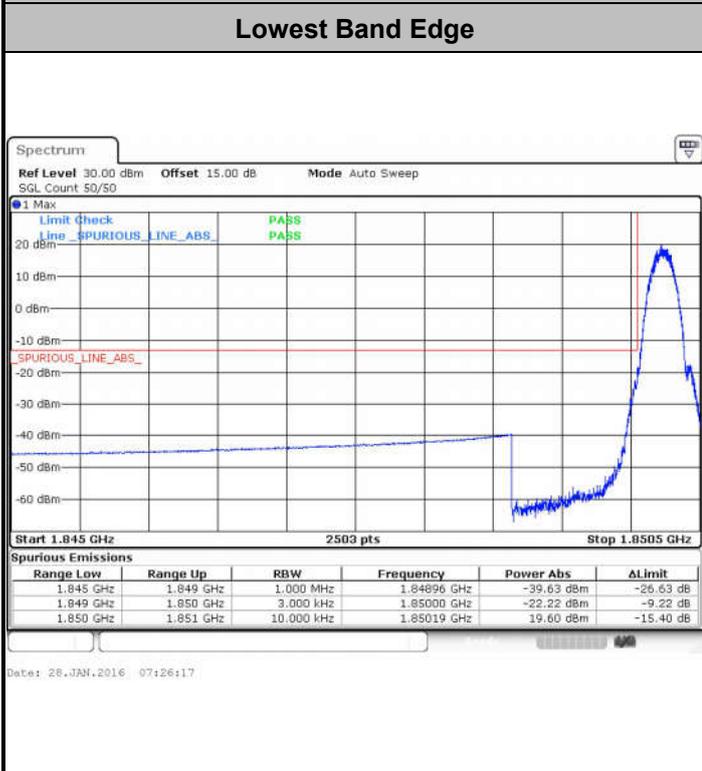


Conducted Band Edge

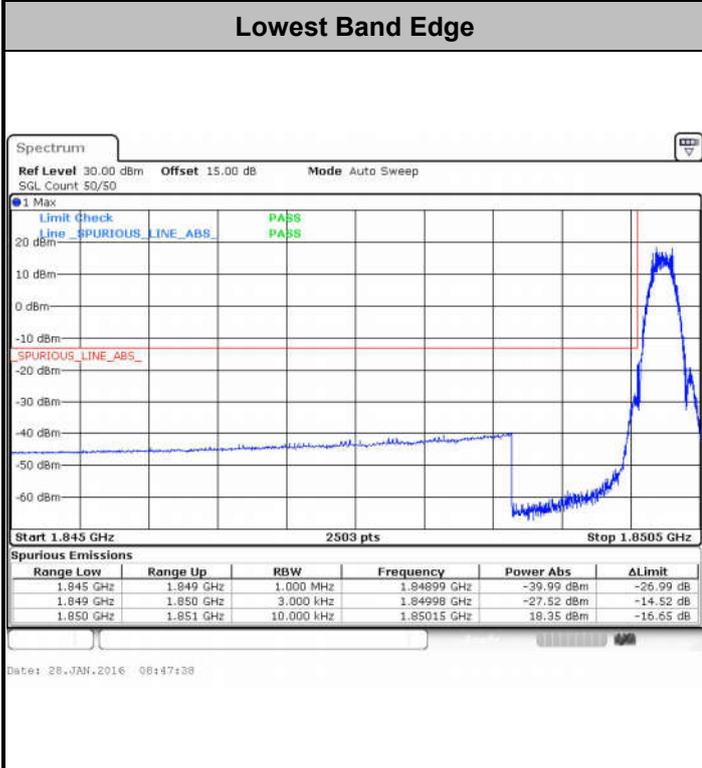




GSM1900 (GPRS class 8)

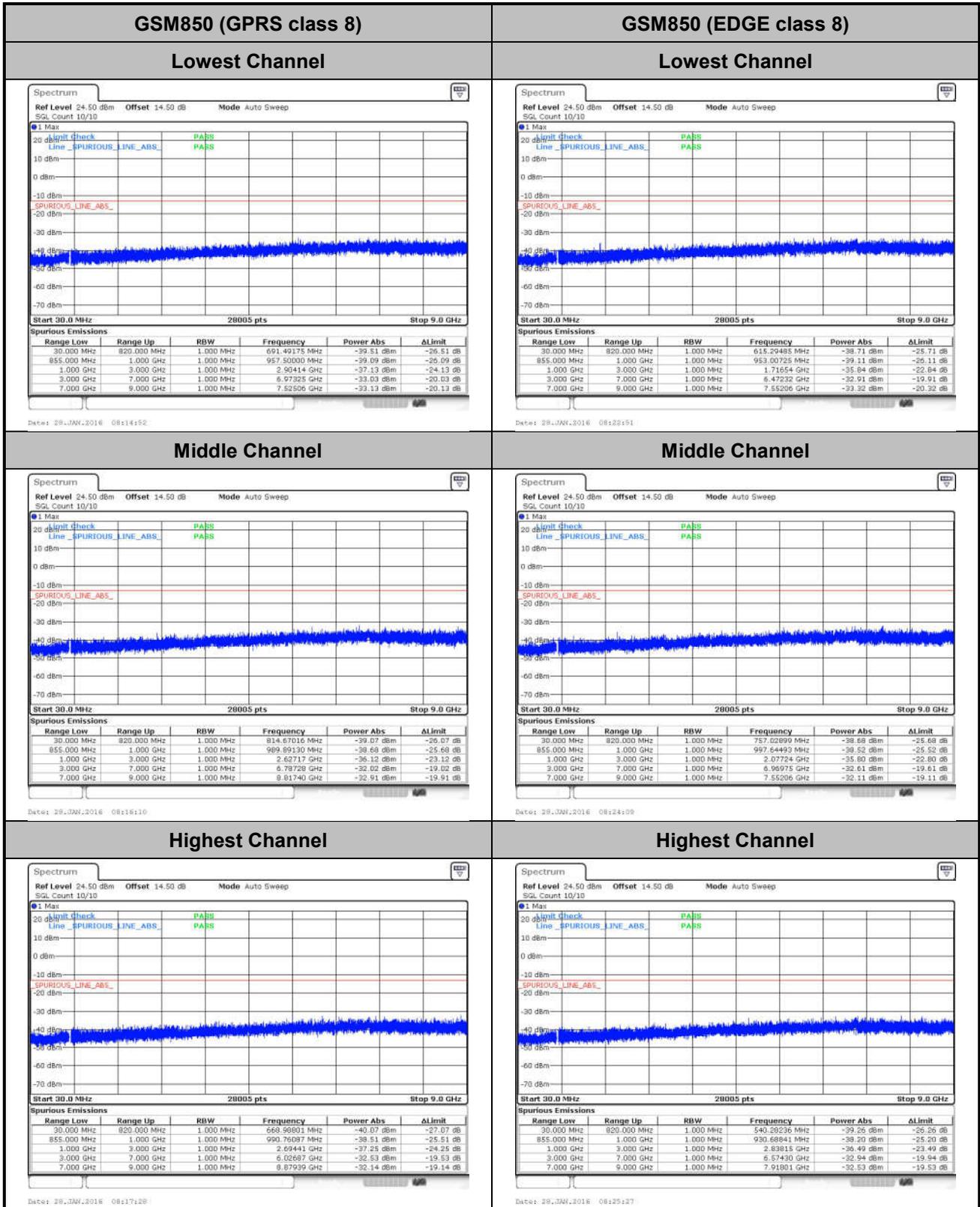


GSM1900 (EDGE class 8)





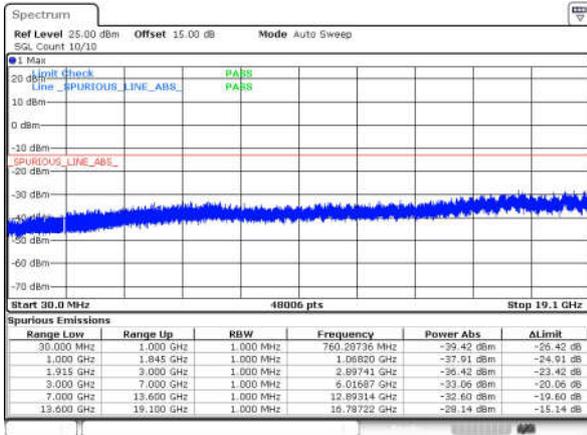
Conducted Spurious Emission





GSM1900 (GPRS class 8)

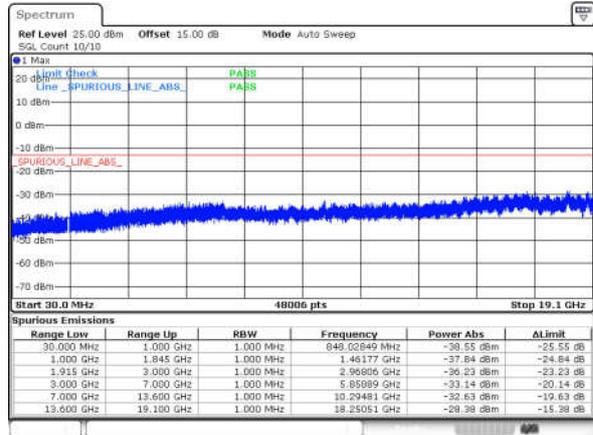
Lowest Channel



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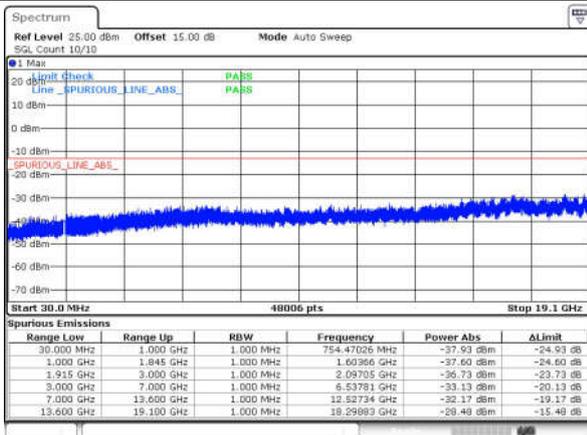
GSM1900 (EDGE class 8)

Lowest Channel



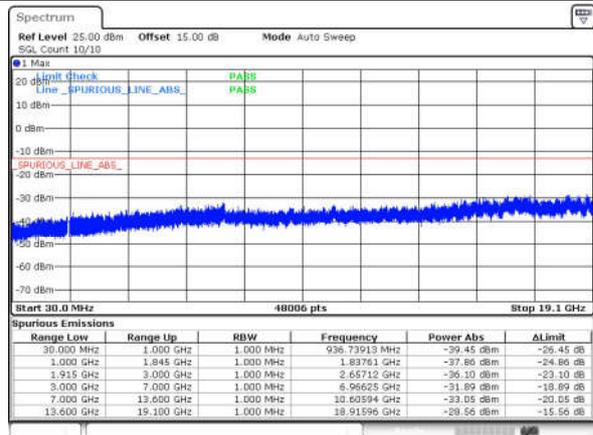
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Middle Channel



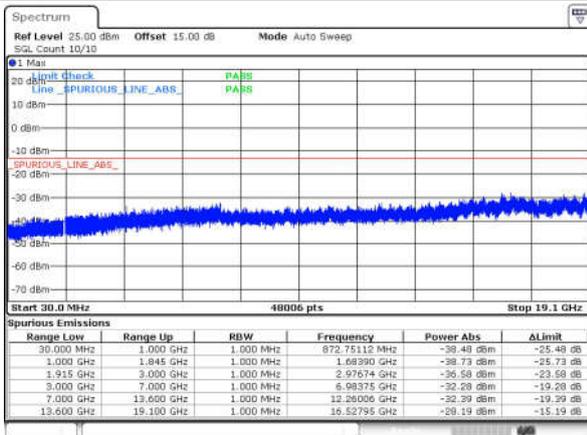
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Middle Channel



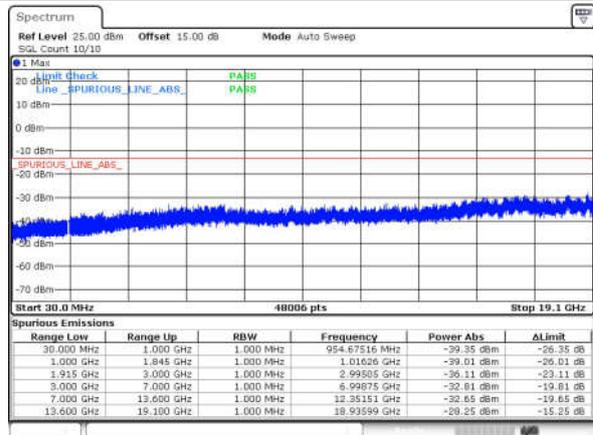
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Highest Channel



Date: 28_JAN.2016 07:37:09

Highest Channel



Date: 28_JAN.2016 08:55:11



Frequency Stability

Test Conditions	Middle Channel	GSM850 (GPRS class 8)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0167	0.0143	PASS
40	Normal Voltage	0.0120	0.0048	
30	Normal Voltage	0.0036	0.0024	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0024	0.0024	
0	Normal Voltage	0.0048	0.0072	
-10	Normal Voltage	0.0072	0.0096	
-20	Normal Voltage	0.0120	0.0143	
-30	Normal Voltage	0.0132	0.0167	
20	Maximum Voltage	0.0072	0.0048	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0048	0.60	

Note: Normal Voltage = 3.9V. ; Battery End Point (BEP) = 3.6V. ; Maximum Voltage =4.2 V



Test Conditions	Middle Channel	GSM1900 (GPRS class 8)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0053	0.0064	PASS
40	Normal Voltage	0.0021	0.0021	
30	Normal Voltage	0.0011	0.0011	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0005	0.0005	
0	Normal Voltage	0.0032	0.0021	
-10	Normal Voltage	0.0043	0.0043	
-20	Normal Voltage	0.0074	0.0053	
-30	Normal Voltage	0.0080	0.0064	
20	Maximum Voltage	0.0032	0.0043	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0011	0.0032	

Note:

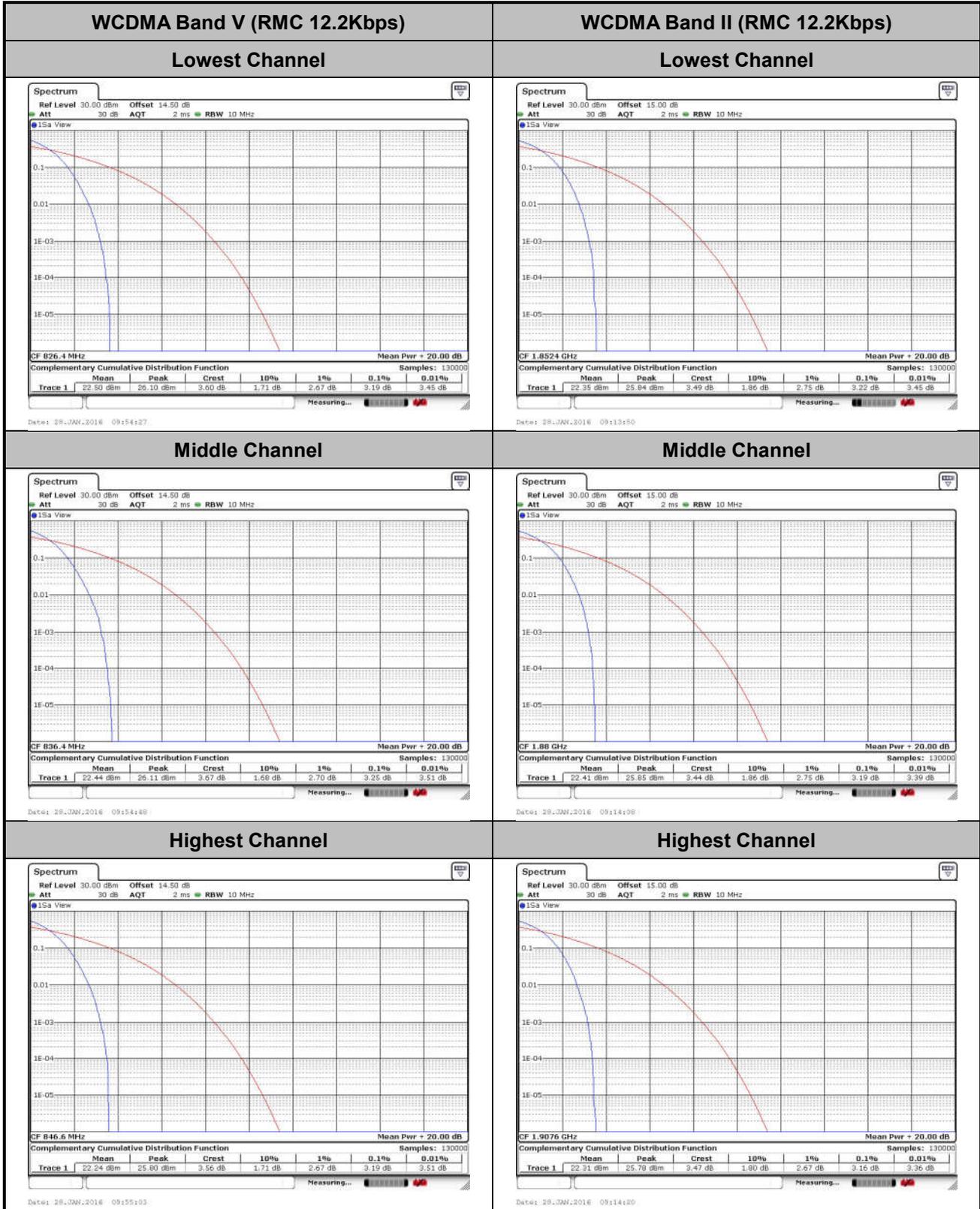
1. Normal Voltage = 3.9V. ; Battery End Point (BEP) = 3.6V. ; Maximum Voltage =4.2 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



A2. WCDMA

Peak-to-Average Ratio

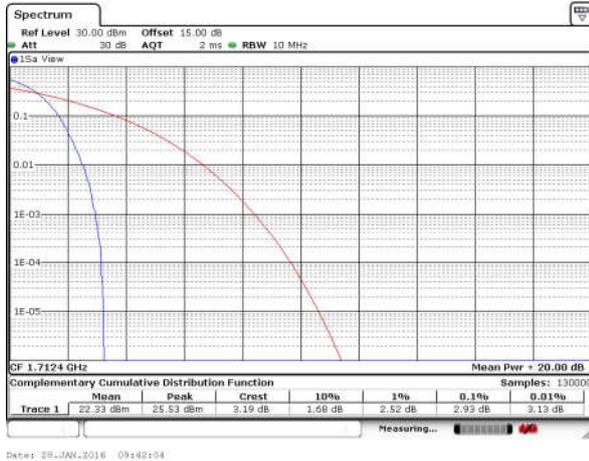
Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	3.19	3.22	2.93	PASS
Middle CH	3.25	3.19	3.01	
Highest CH	3.19	3.16	2.96	





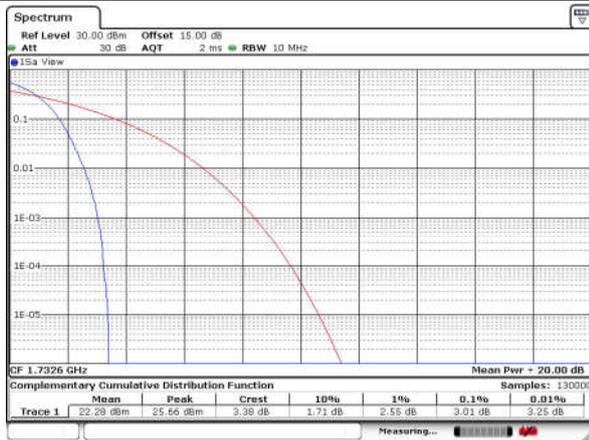
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



Date: 28_JAN_2016 09:48:04

Middle Channel



Date: 28_JAN_2016 09:48:18

Highest Channel



Date: 28_JAN_2016 09:48:28



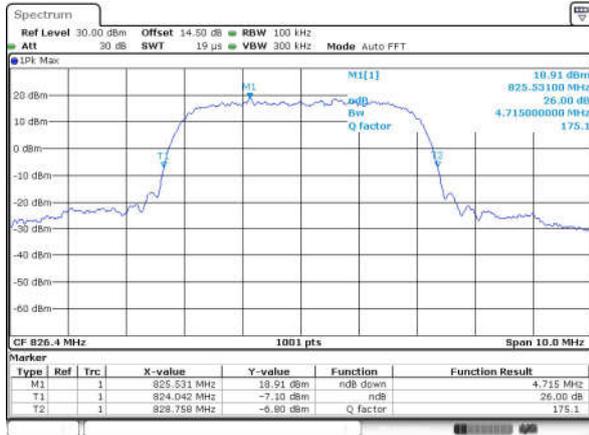
26dB Bandwidth

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.715	4.705	4.735
Middle CH	4.715	4.715	4.725
Highest CH	4.715	4.705	4.725



WCDMA Band V (RMC 12.2Kbps)

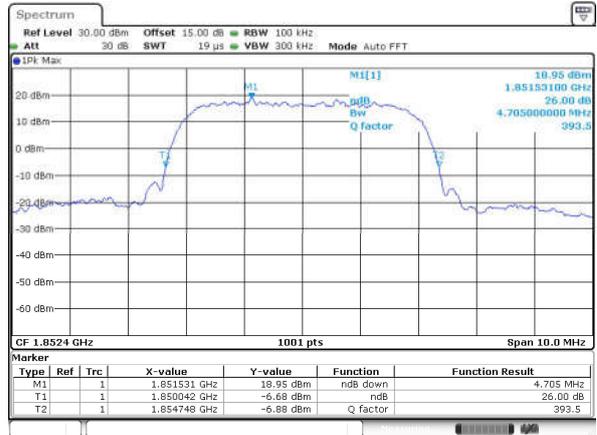
Lowest Channel



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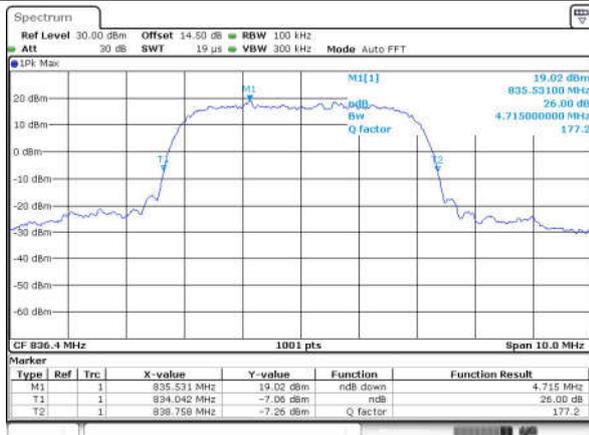
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



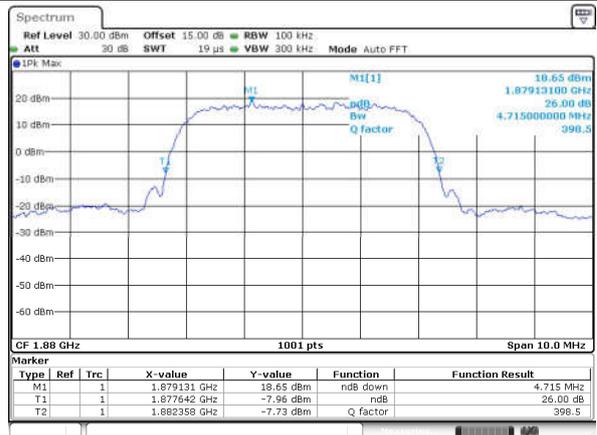
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Middle Channel



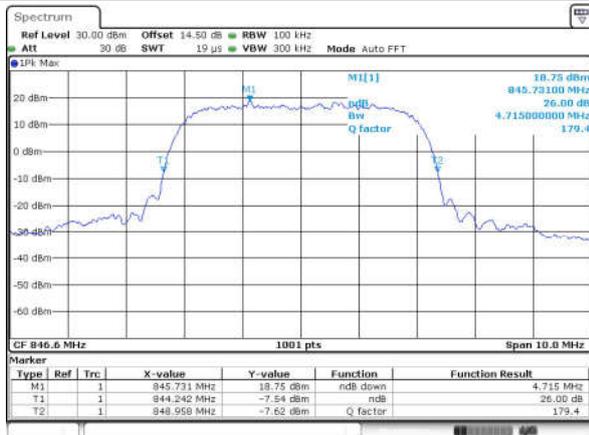
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Middle Channel



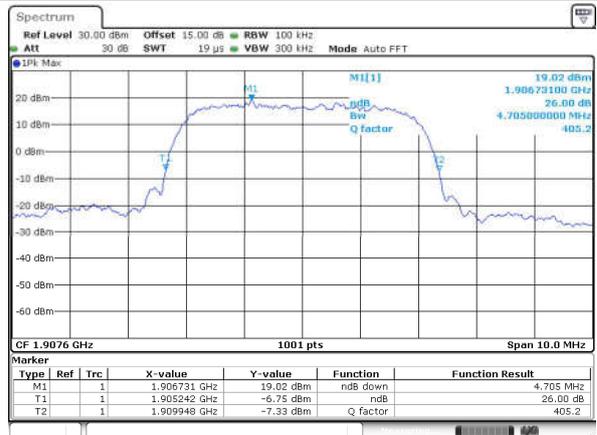
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Highest Channel



Date: 28.JAN.2016 09:46:22

Highest Channel

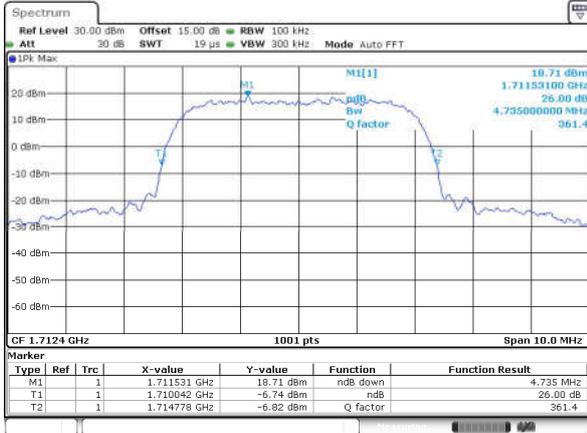


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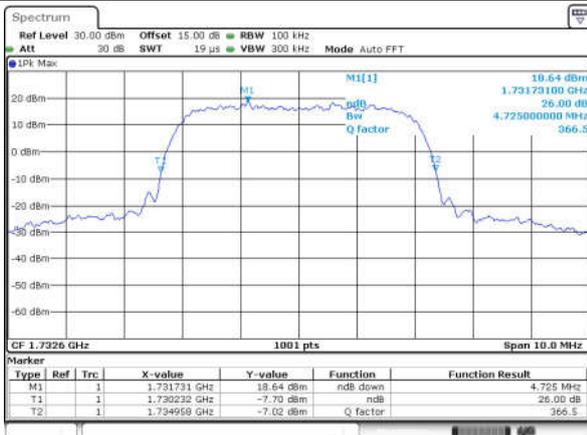
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



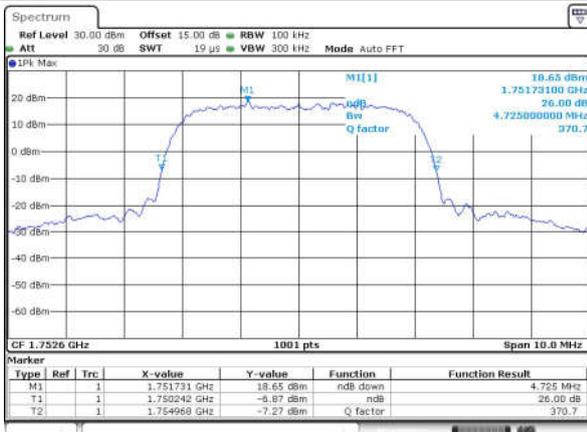
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Middle Channel



Date: 28_JAN.2016 09:29:28

Highest Channel

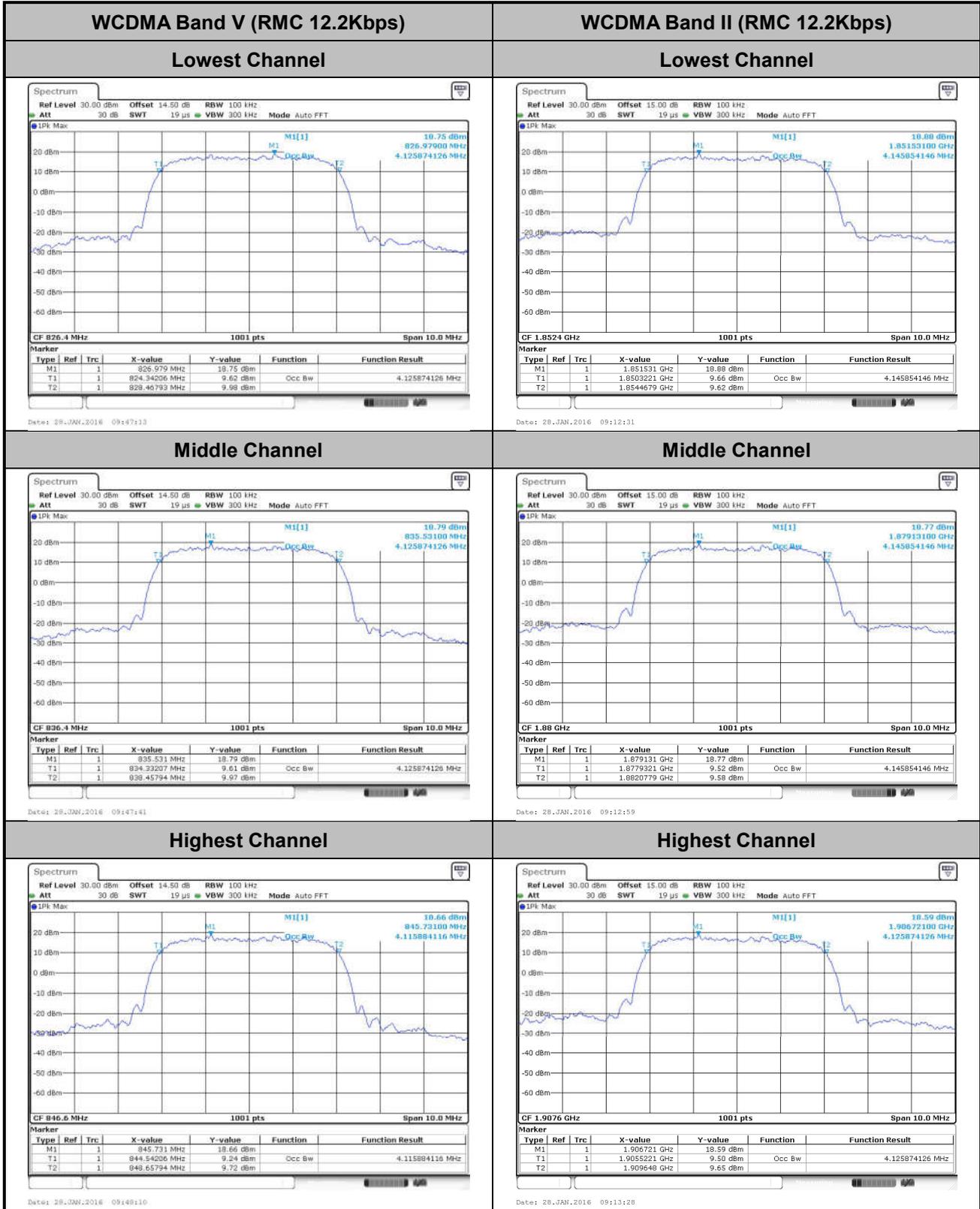


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Occupied Bandwidth

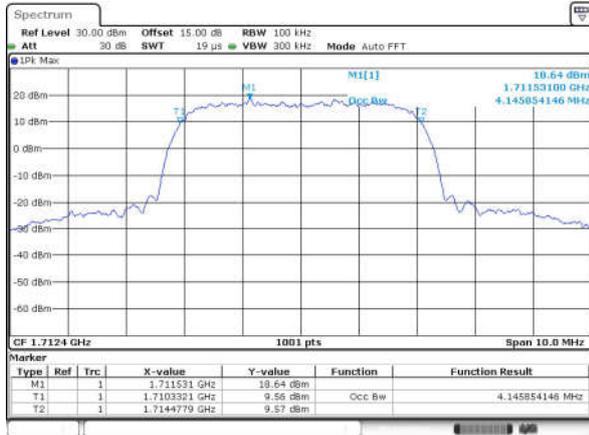
Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.13	4.15	4.15
Middle CH	4.13	4.15	4.16
Highest CH	4.12	4.13	4.15





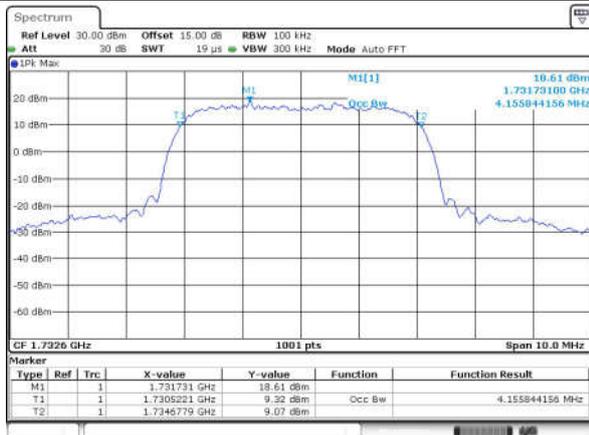
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



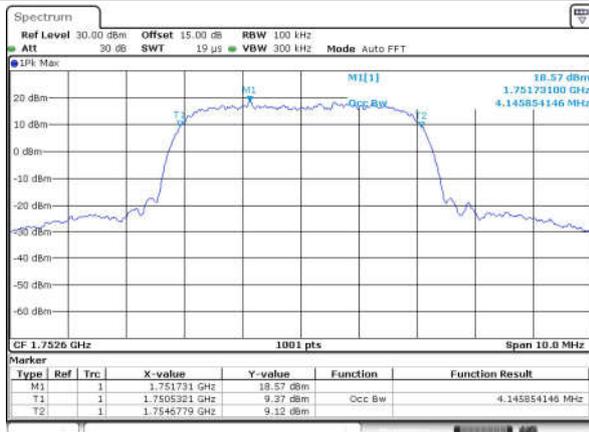
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Middle Channel



Date: 29_JAN_2016 10:07:09

Highest Channel



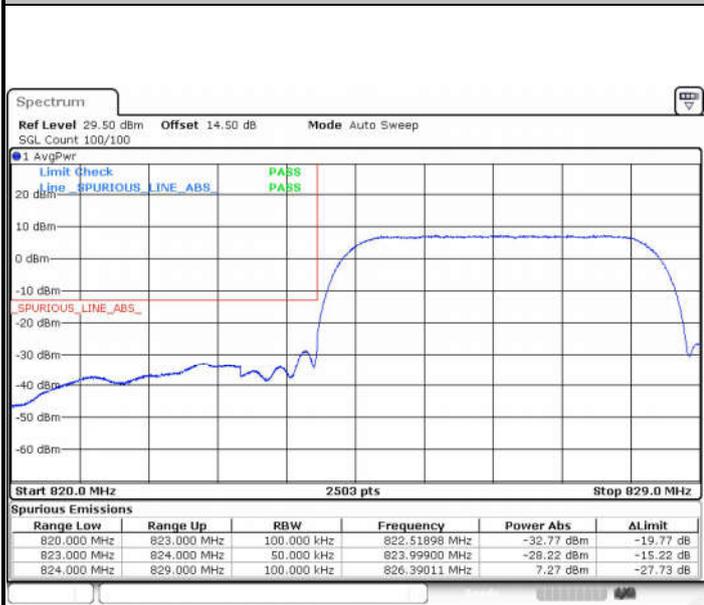
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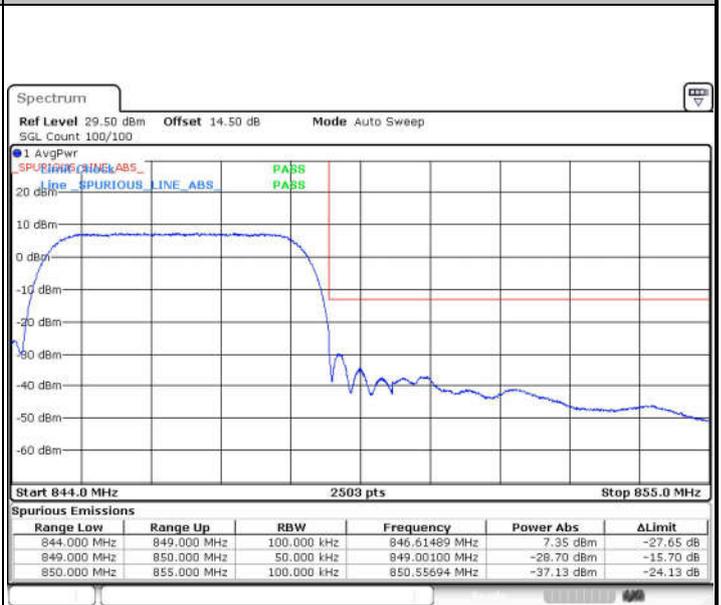
Conducted Band Edge

WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge

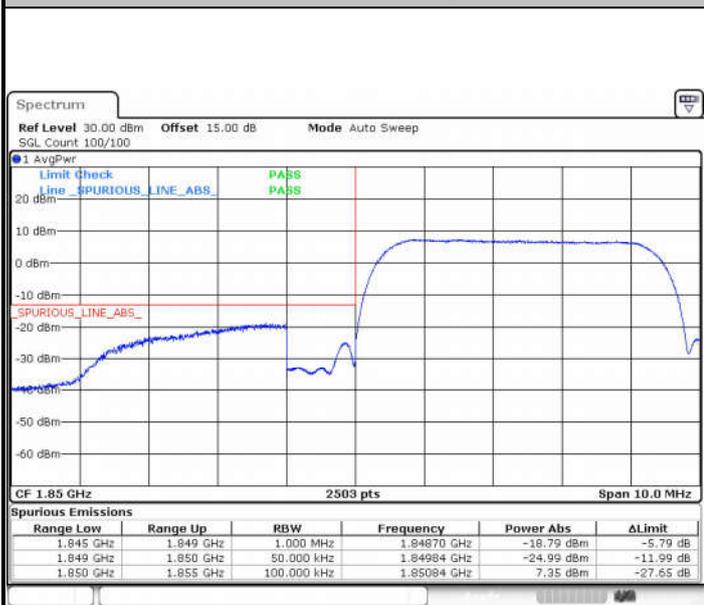


Highest Band Edge

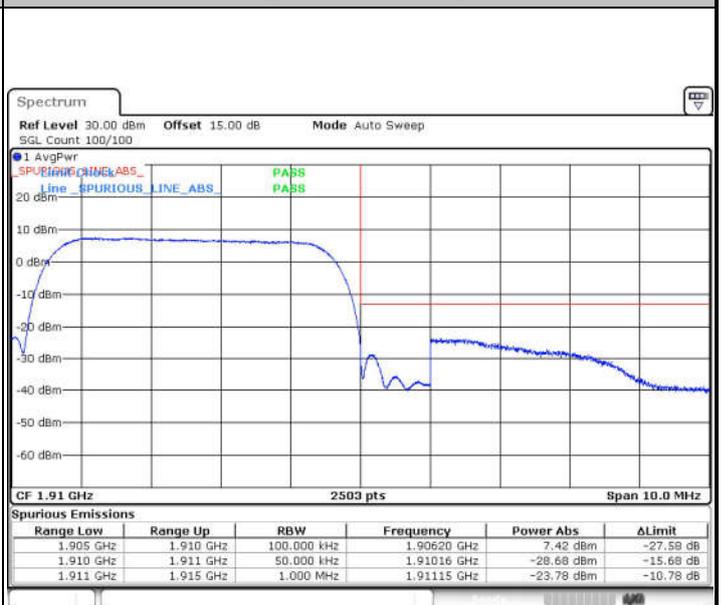


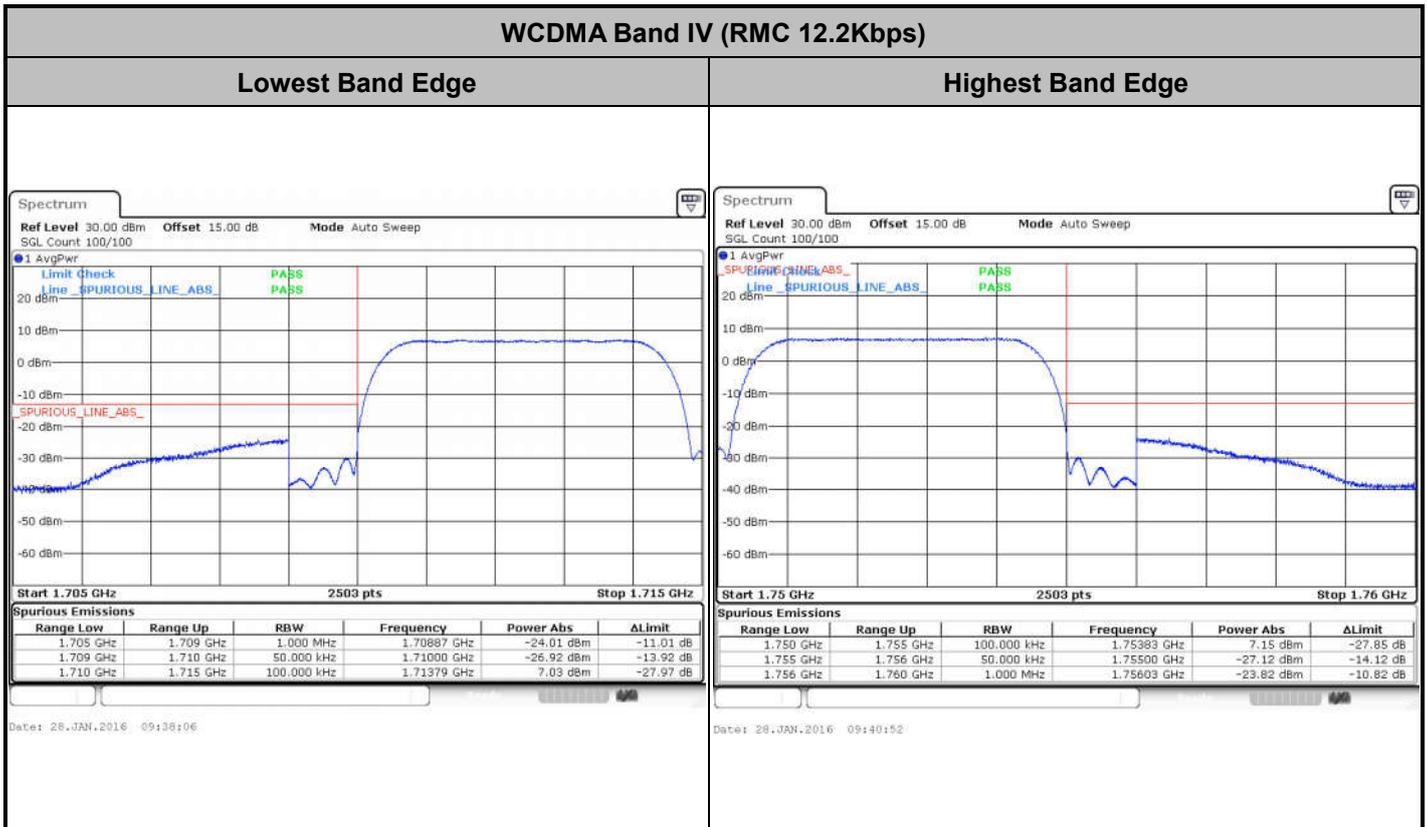
WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge



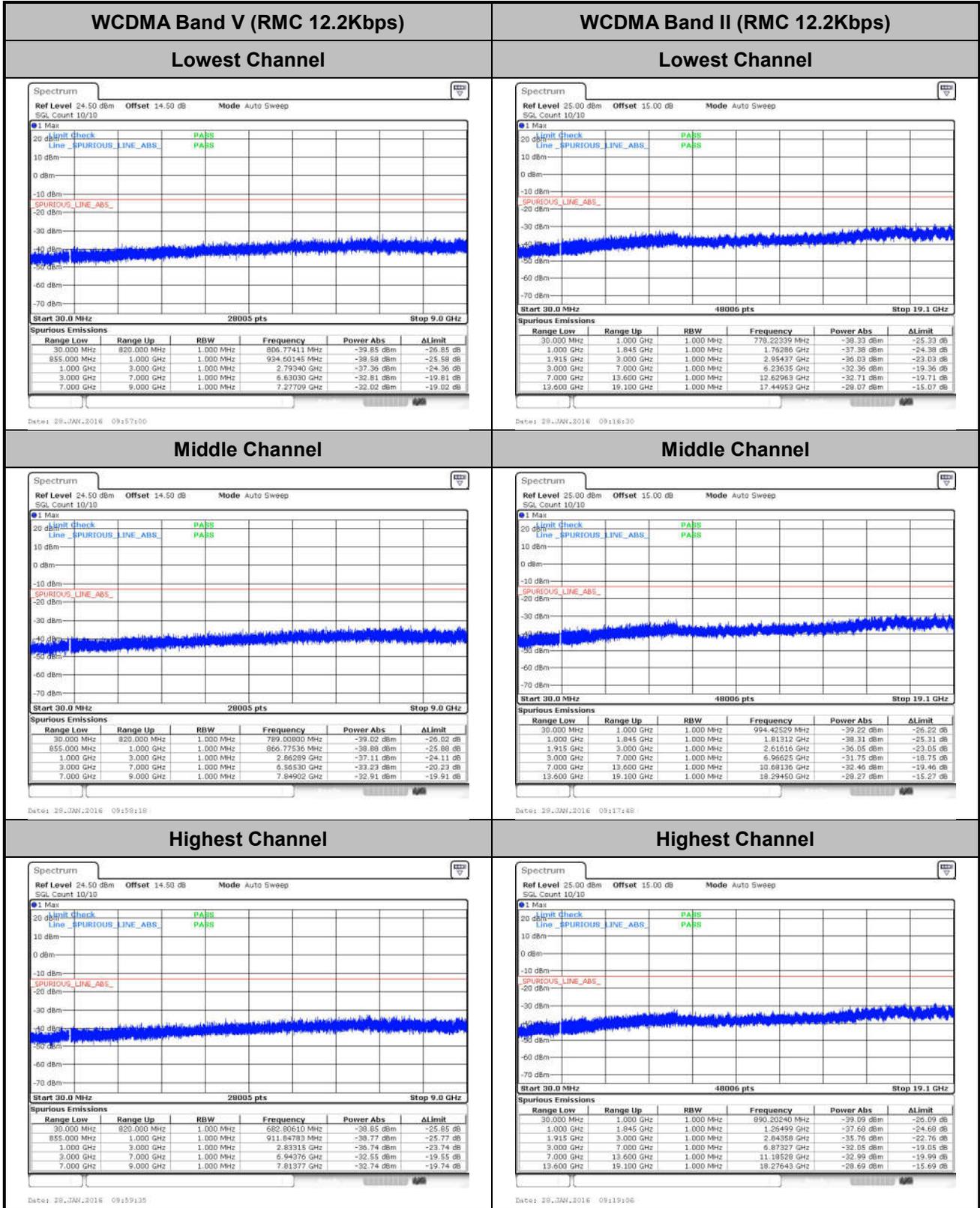
Highest Band Edge







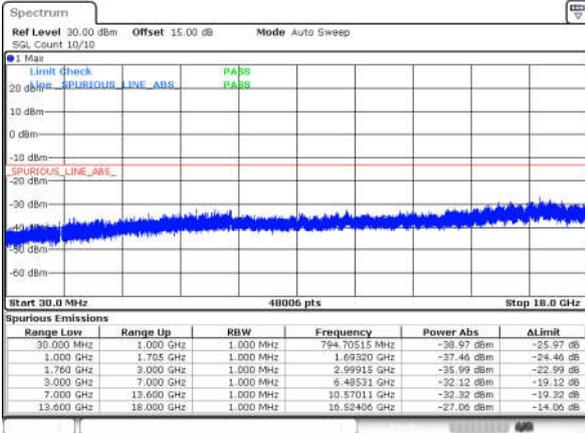
Conducted Spurious Emission





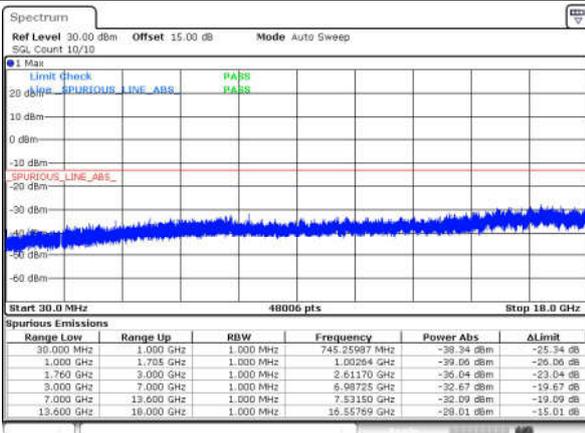
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



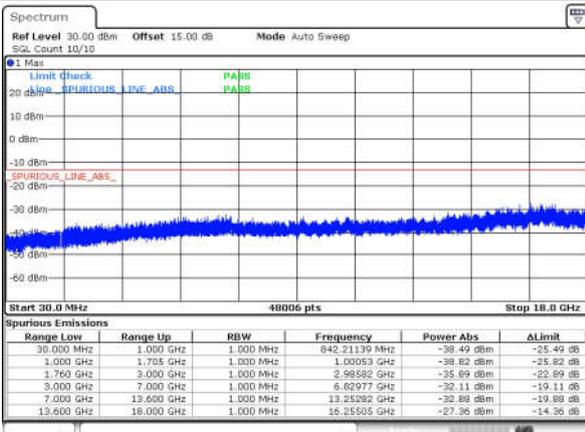
Date: 29_JAN_2016 09:23:13

Middle Channel



Date: 29_JAN_2016 09:23:31

Highest Channel



Date: 29_JAN_2016 09:24:49



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	0.0096	PASS
40	Normal Voltage	0.0048	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0036	
0	Normal Voltage	0.0048	
-10	Normal Voltage	0.0096	
-20	Normal Voltage	0.0120	
-30	Normal Voltage	0.0167	
20	Maximum Voltage	0.0048	
20	Normal Voltage	0.0000	
20	Battery End Point	0.72	

Note: Normal Voltage = 3.9V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.2 V



Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0090	PASS
40	Normal Voltage	0.0037	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0027	
-10	Normal Voltage	0.0059	
-20	Normal Voltage	0.0080	
-30	Normal Voltage	0.0101	
20	Maximum Voltage	0.0037	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0048	

Note:

1. Normal Voltage = 3.9V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.2 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	0.0075	PASS
40	Normal Voltage	0.0029	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0023	
0	Normal Voltage	0.0040	
-10	Normal Voltage	0.0052	
-20	Normal Voltage	0.0063	
-30	Normal Voltage	0.0092	
20	Maximum Voltage	0.0052	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0087	

Note:

1. Normal Voltage = 3.9V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.2 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 GPRS class 8	23.78	0.2389	23.74	0.2367
Middle		23.97	0.2494	24.00	0.2512
Highest		23.84	0.2423	23.76	0.2375
Lowest	GSM850 EDGE class 8	16.02	0.0400	16.43	0.0440
Middle		15.76	0.0377	15.73	0.0374
Highest		16.08	0.0405	16.00	0.0398
Lowest	WCDMA Band V RMC 12.2Kbps	14.97	0.0314	14.93	0.0311
Middle		14.40	0.0275	14.39	0.0275
Highest		14.27	0.0267	14.19	0.0263
Limit	ERP < 7W	Result		PASS	

Channel	Mode	Horizontal		Vertical	
		EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	GSM1900 GPRS class 8	27.77	0.5978	30.95	1.2446
Middle		28.24	0.6662	31.27	1.3396
Highest		28.22	0.6630	31.20	1.3178
Lowest	GSM1900 EDGE class 8	22.63	0.1832	26.04	0.4020
Middle		22.43	0.1748	25.72	0.3730
Highest		22.62	0.1830	25.29	0.3378
Lowest	WCDMA Band II RMC 12.2Kbps	20.61	0.1150	24.22	0.2645
Middle		20.56	0.1137	23.64	0.2314
Highest		20.63	0.1156	23.27	0.2124
Limit	EIRP < 2W	Result		PASS	



Channel	Mode	Horizontal		Vertical	
		EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	WCDMA Band IV RMC 12.2Kbps	22.98	0.1987	24.07	0.2550
Middle		22.74	0.1880	24.21	0.2637
Highest		22.33	0.1709	24.03	0.2528
Limit	EIRP < 1W	Result		PASS	



Radiated Spurious Emission

GSM850 (GPRS 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)
Middle	1672	-42.02	-13	-29.02	-47.55	-40.45	4.92	5.50	H
	2510	-36.50	-13	-23.50	-46.57	-34.04	6.11	5.80	H
	3346	-57.08	-13	-44.08	-65.80	-55.70	7.33	8.10	H
	1672	-40.93	-13	-27.93	-47.09	-39.36	4.92	5.50	V
	2510	-45.51	-13	-32.51	-53.74	-43.05	6.11	5.80	V
	3346	-58.04	-13	-45.04	-66.27	-56.66	7.33	8.10	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)
Middle	1672	-46.80	-13	-33.80	-51.47	-45.23	4.92	5.50	H
	2510	-56.65	-13	-43.65	-62.94	-54.19	6.11	5.80	H
	3346	-56.59	-13	-43.59	-65.31	-55.21	7.33	8.10	H
	1672	-47.58	-13	-34.58	-52.38	-46.01	4.92	5.50	V
	2510	-58.88	-13	-45.88	-64.46	-56.42	6.11	5.80	V
	3346	-57.17	-13	-44.17	-65.40	-55.79	7.33	8.10	V

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

GSM1900 (GPRS 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)
Middle	3760	-31.77	-13	-18.77	-48.80	-32.14	7.73	8.10	H
	5640	-49.09	-13	-36.09	-67.10	-49.99	9.5	10.40	H
	7520	-46.63	-13	-33.63	-67.04	-47.25	11.08	11.70	H
	3760	-30.85	-13	-17.85	-48.36	-31.22	7.73	8.1	V
	5640	-45.53	-13	-32.53	-63.8	-46.43	9.5	10.4	V
	7520	-46.31	-13	-33.31	-66.81	-46.93	11.08	11.7	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)
Middle	3760	-36.98	-13	-23.98	-53.33	-37.35	7.73	8.10	H
	5640	-49.48	-13	-36.48	-67.49	-50.38	9.5	10.40	H
	7520	-46.05	-13	-33.05	-66.46	-46.67	11.08	11.70	H
	3760	-35.46	-13	-22.46	-52.4	-35.83	7.73	8.1	V
	5640	-49.46	-13	-36.46	-67.73	-50.36	9.5	10.4	V
	7520	-47.14	-13	-34.14	-67.64	-47.76	11.08	11.7	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)
Middle	1672	-61.18	-13	-48.18	-63.49	-59.61	4.92	5.50	H
	2510	-56.75	-13	-43.75	-63.04	-54.29	6.11	5.80	H
	3346	-56.59	-13	-43.59	-65.31	-55.21	7.33	8.10	H
	1672	-60.51	-13	-47.51	-62.99	-58.94	4.92	5.50	V
	2510	-59.47	-13	-46.47	-65.05	-57.01	6.11	5.80	V
	3346	-57.34	-13	-44.34	-65.57	-55.96	7.33	8.10	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)
Middle	3760	-35.14	-13	-22.14	-51.48	-35.51	7.73	8.10	H
	5640	-49.52	-13	-36.52	-67.53	-50.42	9.5	10.40	H
	7520	-47.02	-13	-34.02	-67.43	-47.64	11.08	11.70	H
	3760	-34.75	-13	-21.75	-51.81	-35.12	7.73	8.1	V
	5640	-49.20	-13	-36.20	-67.47	-50.10	9.5	10.4	V
	7520	-46.65	-13	-33.65	-67.15	-47.27	11.08	11.7	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)
Middle	3465.2	-42.49	-13	-29.49	-57.24	-47.76	7.33	12.60	H
	5197.8	-47.43	-13	-34.43	-65.43	-50.98	9.15	12.70	H
	6930.4	-47.94	-13	-34.94	-66.75	-49.00	10.64	11.70	H
	3465.2	-47.98	-13	-34.98	-59.56	-53.25	7.33	12.60	V
	5197.8	-51.69	-13	-38.69	-65.44	-55.24	9.15	12.70	V
	6930.4	-48.40	-13	-35.40	-66.49	-49.46	10.64	11.70	V

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