



FCC RF Test Report

APPLICANT : Shenzhen Sang Fei Consumer Communications Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : PHILIPS
MODEL NAME : Philips Xenium X818
FCC ID : VQRCTX818
STANDARD : FCC 47 CFR Part 2, 22(H), 24(E)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Oct. 24, 2016 and testing was completed on Nov. 23, 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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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG6O2403A	Rev. 01	Initial issue of report	Dec. 06, 2016

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)	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a)	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		Within Authorized Band		
4.4	§22.913(a)(2)	Effective Radiated Power	< 7 Watts	PASS	-
	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
4.5	§2.1053 §22.917(a) §24.238(a)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 23.95 dB at 2510.000 MHz



1 General Description

1.1 Applicant

Shenzhen Sang Fei Consumer Communications Co., Ltd.

11, Science And Tech. Rd., Shenzhen Hi-tech Ind Park, Nanshan District, Shenzhen City, 518057, Guangdong, PEOPLE's REPUBLIC OF CHINA

1.2 Manufacturer

Shenzhen Sang Fei Consumer Communications Co., Ltd.

11, Science And Tech. Rd., Shenzhen Hi-tech Ind Park, Nanshan District, Shenzhen City, 518057, Guangdong, PEOPLE's REPUBLIC OF CHINA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	PHILIPS
Model Name	Philips Xenium X818
FCC ID	VQRCTX818
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+/DC-HSDPA/LTE/ WLAN 2.4GHz 802.11b/g/n HT20/HT40/ Bluetooth v3.0+EDR/Bluetooth v4.0 LE/Bluetooth v4.1 LE
IMEI Code	Conducted: 869200020000036/869200020000044 Radiated: 869200020000077/869200020000085 ERP/EIRP: 869200020000119/ 869200020000127
HW Version	S2-MB-V2.0
SW Version	Philips_X818_1641_V01_AG
EUT Stage	Production Unit

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. This device has 2 SIM slots and supports dual SIM dual Standby. The WWAN radio transmission will be enabled by either one SIM at a time (Single active). 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
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
Maximum Output Power to Antenna	GSM/GPRS/EDGE: 850: 32.86 dBm 1900: 29.44 dBm WCDMA: Band V: 23.07 dBm Band II: 21.78 dBm
Antenna Type	PIFA Antenna
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK WCDMA : BPSK (Uplink) HSDPA/DC-HSDPA : QPSK (Uplink) HSUPA : QPSK (Uplink) DC-HSDPA: 64QAM HSPA+ : 16QAM

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	0.4808	0.0395 ppm	247KGXW
Part 22H	GSM850 EDGE class 8	8PSK	0.0839	0.0275 ppm	238KG7W
Part 22H	WCDMA Band V RMC 12.2Kbps	BPSK	0.0349	0.0128 ppm	4M16F9W
Part 24E	GSM1900 GSM	GMSK	0.7161	0.0096 ppm	246KGXW
Part 24E	GSM1900 EDGE class 8	8PSK	0.3273	0.0143 ppm	246KG7W
Part 24E	WCDMA Band II RMC 12.2Kbps	BPSK	0.1009	0.0239 ppm	4M16F9W

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 (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. 03CH02-SZ	FCC Registration No. 566869

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

1.8 Applicable Standards

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

- 47 CFR Part 2, 22(H), 24(E)
- 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:

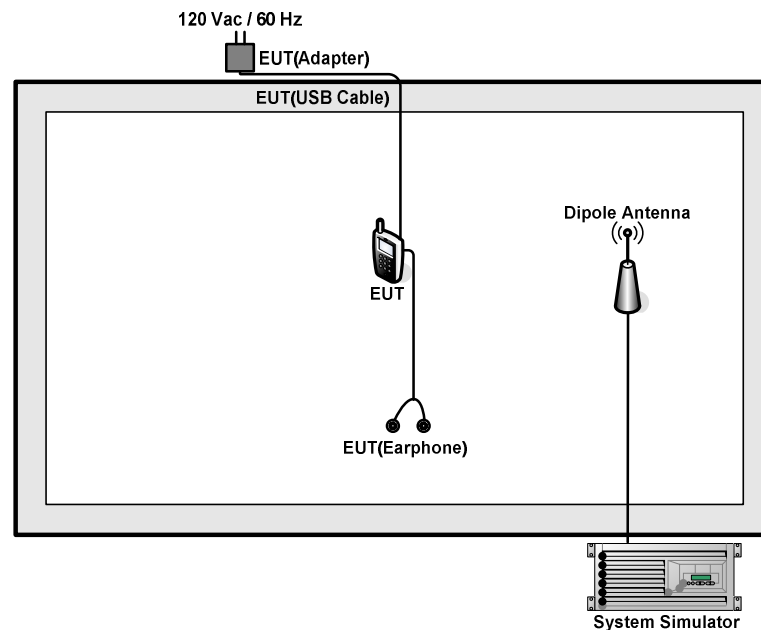
1. 30 MHz to 10th harmonic for GSM850 and WCDMA Band V.
2. 30 MHz to 10th harmonic for GSM1900 and WCDMA Band II.

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

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GW INSTRON	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 dB and a 10dB attenuator.

Example :

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 4 + 10 = 14 \text{ (dB)}
 \end{aligned}$$

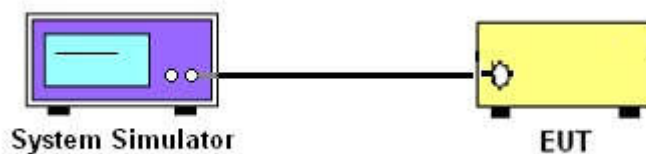
3 Conducted Test Result

3.1 Measuring Instruments

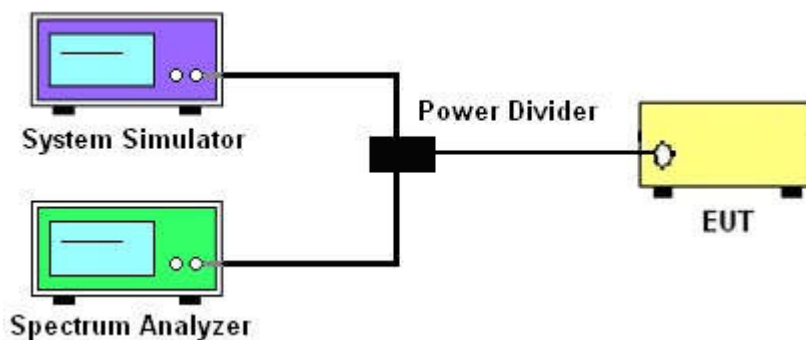
See list of measuring instruments of this test report.

3.2 Test Setup

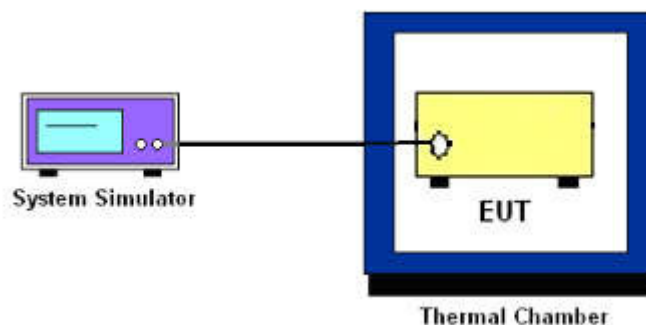
3.2.1 Conducted Output Power



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.
6. 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)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$

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 $20\pm 5^{\circ}\text{C}$ 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

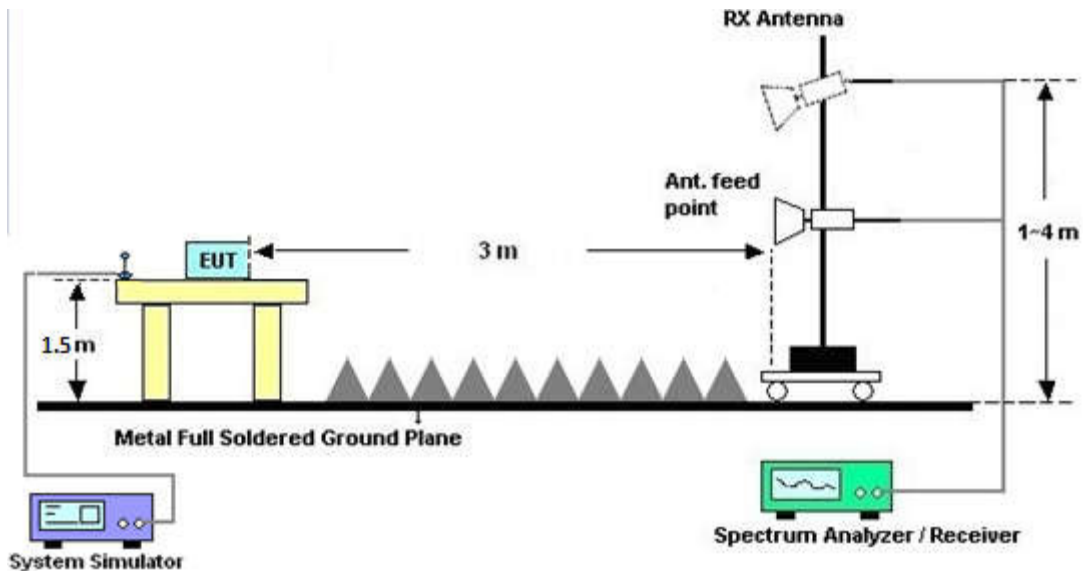
See list of measuring instruments of this test report.

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).

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 for frequency below 1GHz and 1.5 meter for frequency above 1GHz) 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 for frequency below 1GHz and 1.5 meter for frequency above 1GHz 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)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$



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. 12, 2016	Nov. 02, 2016~ Nov. 03, 2016	Jan. 11, 2017	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 16, 2016	Nov. 02, 2016~ Nov. 03, 2016	Jul. 15, 2017	Conducted (TH01-SZ)
Spectrum Analyzer	R&S	FSV40	101041	10kHz~40GHz; Max 30dBm	Oct. 11, 2016	Nov. 23, 2016	Oct. 10, 2017	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	May 21, 2016	Nov. 23, 2016	May 20, 2017	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1285	1GHz~18GHz	Jan. 11, 2016	Nov. 23, 2016	Jan. 10, 2017	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Aug. 10, 2016	Nov. 23, 2016	Aug. 09, 2017	Radiation (03CH02-SZ)
Amplifier	HP	8447F	3113A04622	9kHz ~1300MHz / 30 dB	Jul. 16, 2016	Nov. 23, 2016	Jul. 15, 2017	Radiation (03CH02-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Jan. 12, 2016	Nov. 23, 2016	Jan. 11, 2017	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	61601000247 0	N/A	NCR	Nov. 23, 2016	NCR	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Nov. 23, 2016	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Nov. 23, 2016	NCR	Radiation (03CH02-SZ)

NCR: No Calibration Required



6 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.5dB
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Uncertainty of Radiated Emission Measurement (1GHz ~ 18GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.3dB
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Uncertainty of Radiated Emission Measurement (18GHz ~ 40GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.7dB
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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	32.82	32.74	32.86	29.41	29.43	29.44
GPRS class 8	32.81	32.83	32.85	29.40	29.42	29.42
GPRS class 10	32.05	32.09	32.11	28.66	28.69	28.72
GPRS class 11	30.16	30.20	30.21	26.84	26.90	26.92
GPRS class 12	29.09	29.14	29.16	25.75	25.82	25.88
EGPRS class 8	26.48	26.51	26.51	25.70	25.71	25.40
EGPRS class 10	25.43	25.54	25.55	24.60	24.50	24.33
EGPRS class 11	23.43	23.51	23.50	22.30	22.27	22.15
EGPRS class 12	22.27	22.44	22.54	21.13	21.00	20.88

Conducted Power (*Unit: dBm)						
Band	WCDMA Band V			WCDMA Band II		
Channel	4132	4182	4233	9262	9400	9538
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6
AMR 12.2Kbps	22.98	22.92	23.05	21.52	21.54	21.76
RMC 12.2Kbps	22.99	22.94	23.07	21.54	21.55	21.78
HSDPA Subtest-1	21.57	21.55	21.53	20.10	20.06	20.17
HSDPA Subtest-2	21.58	21.53	21.52	20.05	20.02	20.04
HSDPA Subtest-3	21.08	20.96	21.08	19.51	19.56	19.59
HSDPA Subtest-4	21.10	21.05	21.00	19.50	19.53	19.52
DC-HSDPA Subtest-1	21.47	21.48	21.52	20.03	20.10	20.22
DC-HSDPA Subtest-2	21.46	21.51	21.52	20.05	20.08	20.25
DC-HSDPA Subtest-3	21.18	21.17	21.22	19.74	19.75	19.92
DC-HSDPA Subtest-4	21.16	21.20	21.18	19.69	19.71	19.90
HSUPA Subtest-1	19.60	19.58	19.57	18.09	18.09	18.28
HSUPA Subtest-2	19.65	19.63	19.57	18.14	18.19	18.25
HSUPA Subtest-3	20.68	20.63	20.63	19.11	19.16	19.28
HSUPA Subtest-4	19.19	19.11	19.07	17.63	17.70	17.80
HSUPA Subtest-5	21.10	20.60	20.60	19.10	19.20	19.20
HSPA+ (16QAM) Subtest-1	21.46	21.48	21.50	20.13	20.15	20.18

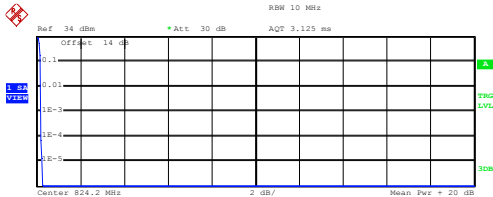
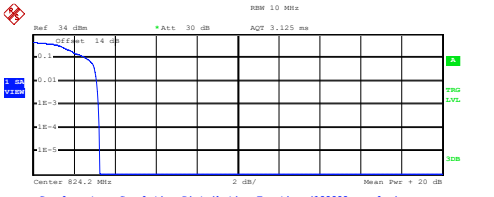
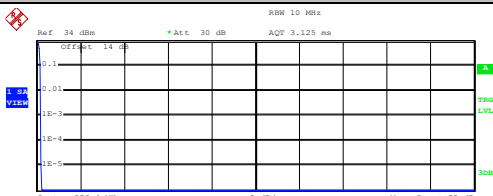
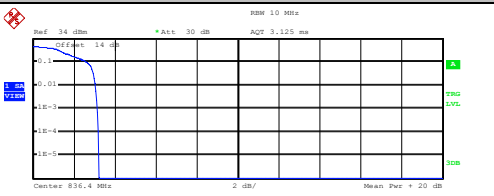
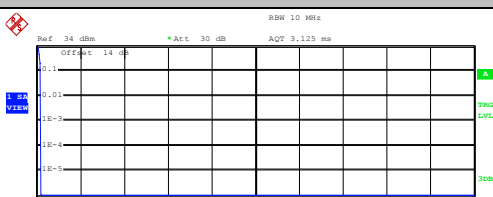
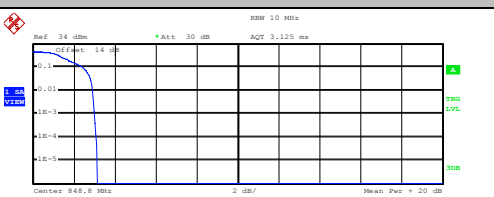
**Peak-to-Average Ratio**

Mode	GSM850(dB)		Limit: 13dB
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.20	3.20	PASS
Middle CH	0.20	3.16	
Highest CH	0.20	3.00	

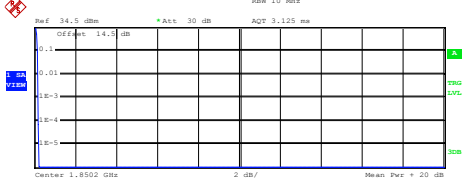
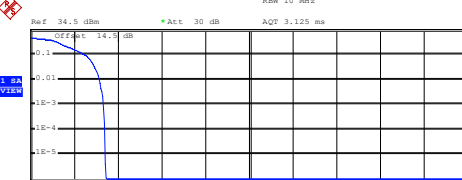
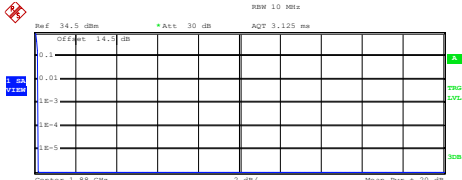
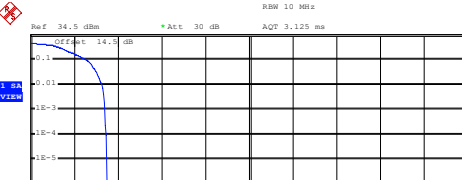
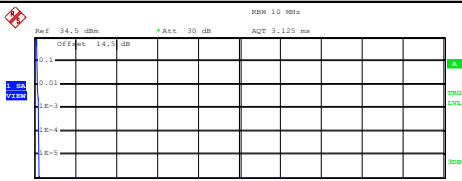
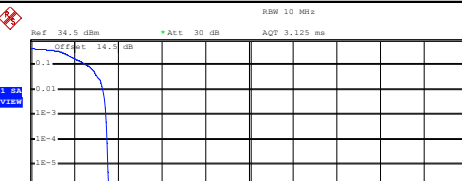
Mode	GSM1900(dB)		Limit: 13dB
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.20	3.36	PASS
Middle CH	0.20	3.44	
Highest CH	0.24	3.48	

Mode	WCDMA Band V(dB)	WCDMA Band II(dB)	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	2.96	3.28	PASS
Middle CH	3.08	3.20	
Highest CH	3.12	3.08	

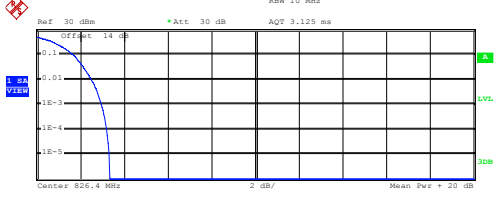
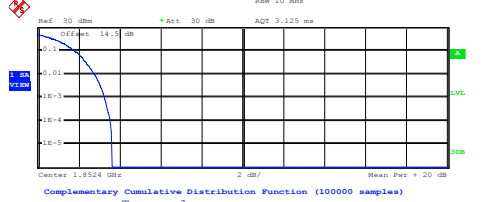
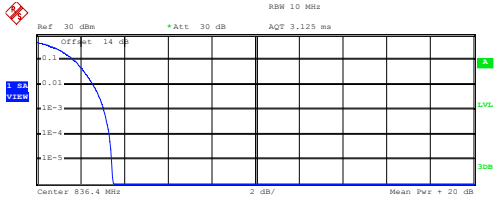
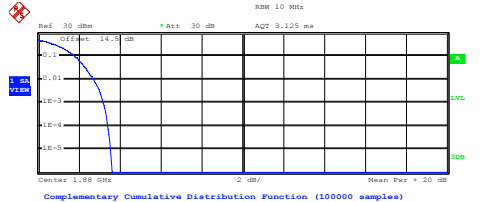
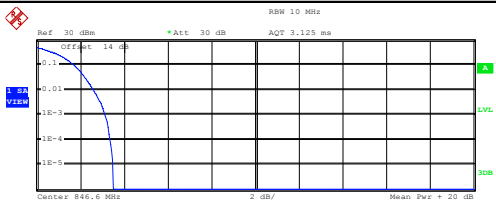
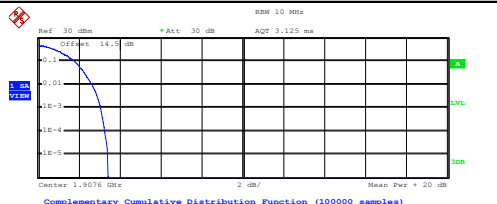


GSM850 (GSM)		GSM850 (EDGE class 8)	
Lowest Channel		Lowest Channel	
 Center 824.2 MHz 2 dB/ Mean Pwr + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 32.88 dBm Peak 33.13 dBm Crest 0.25 dB 10 % 0.16 dB 1 % 0.20 dB .1 % 0.20 dB .01 % 0.20 dB Date: 2.NOV.2016 15:57:24		 Center 824.2 MHz 2 dB/ Mean Pwr + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 25.30 dBm Peak 28.54 dBm Crest 3.24 dB 10 % 2.60 dB 1 % 3.12 dB .1 % 3.20 dB .01 % 3.24 dB Date: 3.NOV.2016 11:42:27	
Middle Channel		Middle Channel	
 Center 836.4 MHz 2 dB/ Mean Pwr + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 32.81 dBm Peak 33.05 dBm Crest 0.24 dB 10 % 0.16 dB 1 % 0.20 dB .1 % 0.20 dB .01 % 0.20 dB Date: 2.NOV.2016 15:58:09		 Center 836.4 MHz 2 dB/ Mean Pwr + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 25.41 dBm Peak 28.61 dBm Crest 3.20 dB 10 % 2.64 dB 1 % 3.04 dB .1 % 3.16 dB .01 % 3.20 dB Date: 3.NOV.2016 11:42:47	
Highest Channel		Highest Channel	
 Center 849.8 MHz 2 dB/ Mean Pwr + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 32.72 dBm Peak 32.91 dBm Crest 0.19 dB 10 % 0.20 dB 1 % 0.20 dB .1 % 0.20 dB .01 % 0.20 dB Date: 2.NOV.2016 15:58:32		 Center 849.8 MHz 2 dB/ Mean Pwr + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 25.39 dBm Peak 28.54 dBm Crest 3.15 dB 10 % 2.44 dB 1 % 2.92 dB .1 % 3.00 dB .01 % 3.08 dB Date: 3.NOV.2016 11:43:10	



GSM1900 (GSM)		GSM1900 (EDGE class 8)	
Lowest Channel		Lowest Channel	
 Ref: 34.5 dBm *Att: 30 dB AGT: 3.125 ms Center: 1.8502 GHz 2 dB/ Mean Pwr: +20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 29.22 dBm Peak 29.46 dBm Crest 0.24 dB 10 % 0.16 dB 1 % 0.20 dB .1 % 0.20 dB .01 % 0.20 dB Date: 2.NOV.2016 18:20:38		 Ref: 34.5 dBm *Att: 30 dB AGT: 3.125 ms Center: 1.8502 GHz 2 dB/ Mean Pwr: +20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 25.39 dBm Peak 28.83 dBm Crest 3.43 dB 10 % 2.52 dB 1 % 3.16 dB .1 % 3.36 dB .01 % 3.40 dB Date: 2.NOV.2016 17:58:37	
Middle Channel		Middle Channel	
 Ref: 34.5 dBm *Att: 30 dB AGT: 3.125 ms Center: 1.85 GHz 2 dB/ Mean Pwr: +20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 29.28 dBm Peak 29.46 dBm Crest 0.18 dB 10 % 0.16 dB 1 % 0.20 dB .1 % 0.20 dB .01 % 0.20 dB Date: 2.NOV.2016 18:21:04		 Ref: 34.5 dBm *Att: 30 dB AGT: 3.125 ms Center: 1.85 GHz 2 dB/ Mean Pwr: +20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 25.40 dBm Peak 28.90 dBm Crest 3.50 dB 10 % 2.60 dB 1 % 3.28 dB .1 % 3.44 dB .01 % 3.48 dB Date: 2.NOV.2016 17:59:02	
Highest Channel		Highest Channel	
 Ref: 34.5 dBm *Att: 30 dB AGT: 3.125 ms Center: 1.9098 GHz 2 dB/ Mean Pwr: +20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 29.45 dBm Peak 29.67 dBm Crest 0.23 dB 10 % 0.16 dB 1 % 0.16 dB .1 % 0.24 dB .01 % 0.24 dB Date: 2.NOV.2016 18:21:22		 Ref: 34.5 dBm *Att: 30 dB AGT: 3.125 ms Center: 1.9098 GHz 2 dB/ Mean Pwr: +20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 25.34 dBm Peak 28.90 dBm Crest 3.56 dB 10 % 2.60 dB 1 % 3.32 dB .1 % 3.48 dB .01 % 3.52 dB Date: 2.NOV.2016 17:59:29	



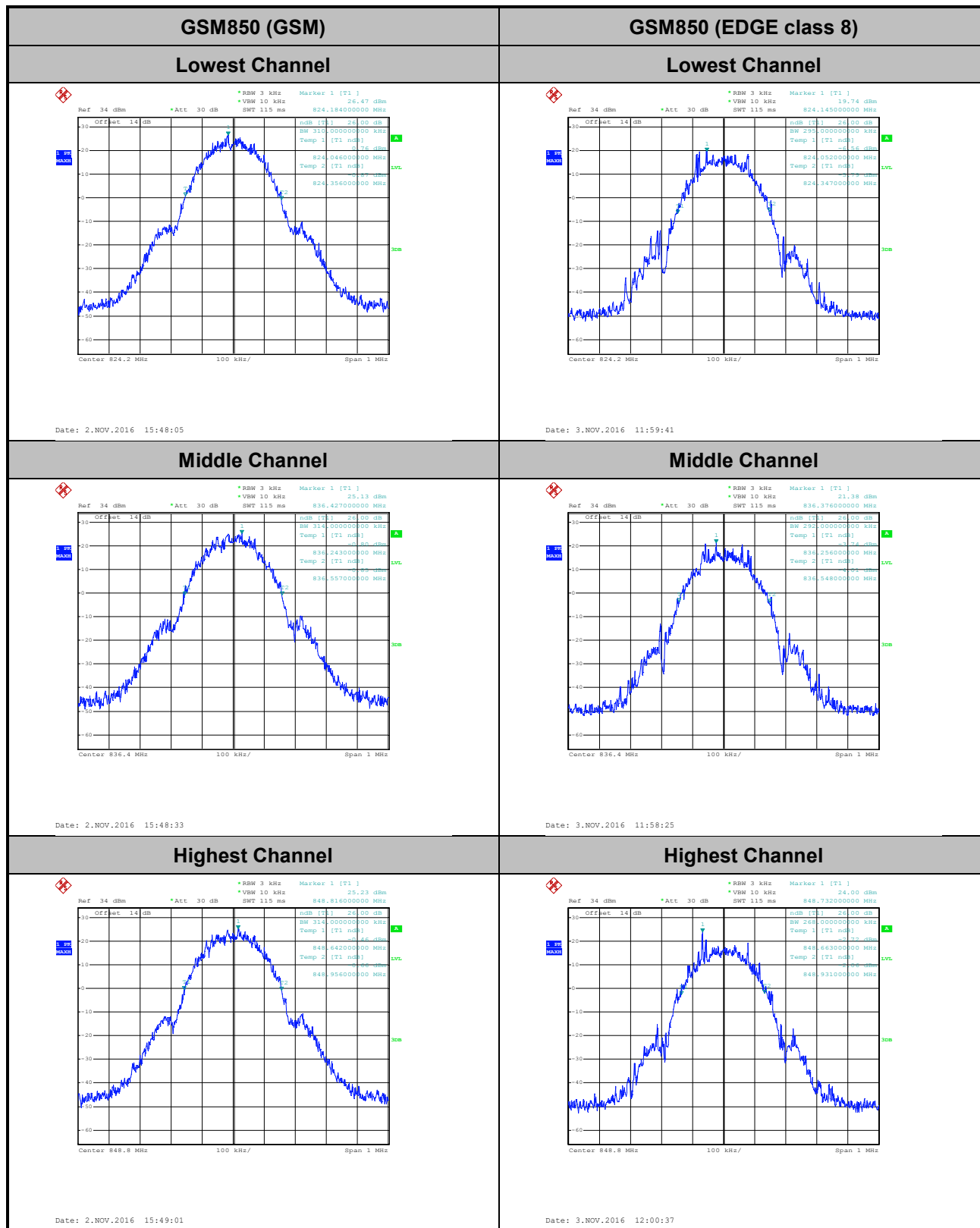
WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)																												
Lowest Channel	Lowest Channel																												
 Center 826.4 MHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 <table><tr><td>Mean</td><td>22.03 dBm</td></tr><tr><td>Peak</td><td>25.39 dBm</td></tr><tr><td>Crest</td><td>3.36 dB</td></tr></table> <table><tr><td>10 %</td><td>1.68 dB</td></tr><tr><td>1 %</td><td>2.52 dB</td></tr><tr><td>.1 %</td><td>2.96 dB</td></tr><tr><td>.01 %</td><td>3.20 dB</td></tr></table> Date: 2.NOV.2016 17:04:03	Mean	22.03 dBm	Peak	25.39 dBm	Crest	3.36 dB	10 %	1.68 dB	1 %	2.52 dB	.1 %	2.96 dB	.01 %	3.20 dB	 Center 1.8524 GHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 <table><tr><td>Mean</td><td>21.26 dBm</td></tr><tr><td>Peak</td><td>24.89 dBm</td></tr><tr><td>Crest</td><td>3.63 dB</td></tr></table> <table><tr><td>10 %</td><td>1.80 dB</td></tr><tr><td>1 %</td><td>2.76 dB</td></tr><tr><td>.1 %</td><td>3.28 dB</td></tr><tr><td>.01 %</td><td>3.52 dB</td></tr></table> Date: 2.NOV.2016 17:22:23	Mean	21.26 dBm	Peak	24.89 dBm	Crest	3.63 dB	10 %	1.80 dB	1 %	2.76 dB	.1 %	3.28 dB	.01 %	3.52 dB
Mean	22.03 dBm																												
Peak	25.39 dBm																												
Crest	3.36 dB																												
10 %	1.68 dB																												
1 %	2.52 dB																												
.1 %	2.96 dB																												
.01 %	3.20 dB																												
Mean	21.26 dBm																												
Peak	24.89 dBm																												
Crest	3.63 dB																												
10 %	1.80 dB																												
1 %	2.76 dB																												
.1 %	3.28 dB																												
.01 %	3.52 dB																												
Middle Channel	Middle Channel																												
 Center 836.4 MHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 <table><tr><td>Mean</td><td>21.90 dBm</td></tr><tr><td>Peak</td><td>25.39 dBm</td></tr><tr><td>Crest</td><td>3.49 dB</td></tr></table> <table><tr><td>10 %</td><td>1.72 dB</td></tr><tr><td>1 %</td><td>2.60 dB</td></tr><tr><td>.1 %</td><td>3.08 dB</td></tr><tr><td>.01 %</td><td>3.32 dB</td></tr></table> Date: 2.NOV.2016 17:04:16	Mean	21.90 dBm	Peak	25.39 dBm	Crest	3.49 dB	10 %	1.72 dB	1 %	2.60 dB	.1 %	3.08 dB	.01 %	3.32 dB	 Center 1.85 GHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 <table><tr><td>Mean</td><td>21.21 dBm</td></tr><tr><td>Peak</td><td>24.82 dBm</td></tr><tr><td>Crest</td><td>3.62 dB</td></tr></table> <table><tr><td>10 %</td><td>1.80 dB</td></tr><tr><td>1 %</td><td>2.72 dB</td></tr><tr><td>.1 %</td><td>3.20 dB</td></tr><tr><td>.01 %</td><td>3.44 dB</td></tr></table> Date: 2.NOV.2016 17:22:36	Mean	21.21 dBm	Peak	24.82 dBm	Crest	3.62 dB	10 %	1.80 dB	1 %	2.72 dB	.1 %	3.20 dB	.01 %	3.44 dB
Mean	21.90 dBm																												
Peak	25.39 dBm																												
Crest	3.49 dB																												
10 %	1.72 dB																												
1 %	2.60 dB																												
.1 %	3.08 dB																												
.01 %	3.32 dB																												
Mean	21.21 dBm																												
Peak	24.82 dBm																												
Crest	3.62 dB																												
10 %	1.80 dB																												
1 %	2.72 dB																												
.1 %	3.20 dB																												
.01 %	3.44 dB																												
Highest Channel	Highest Channel																												
 Center 846.6 MHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 <table><tr><td>Mean</td><td>22.01 dBm</td></tr><tr><td>Peak</td><td>25.53 dBm</td></tr><tr><td>Crest</td><td>3.51 dB</td></tr></table> <table><tr><td>10 %</td><td>1.72 dB</td></tr><tr><td>1 %</td><td>2.60 dB</td></tr><tr><td>.1 %</td><td>3.12 dB</td></tr><tr><td>.01 %</td><td>3.36 dB</td></tr></table> Date: 2.NOV.2016 17:04:28	Mean	22.01 dBm	Peak	25.53 dBm	Crest	3.51 dB	10 %	1.72 dB	1 %	2.60 dB	.1 %	3.12 dB	.01 %	3.36 dB	 Center 1.9076 GHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 <table><tr><td>Mean</td><td>21.46 dBm</td></tr><tr><td>Peak</td><td>24.89 dBm</td></tr><tr><td>Crest</td><td>3.44 dB</td></tr></table> <table><tr><td>10 %</td><td>1.80 dB</td></tr><tr><td>1 %</td><td>2.64 dB</td></tr><tr><td>.1 %</td><td>3.08 dB</td></tr><tr><td>.01 %</td><td>3.28 dB</td></tr></table> Date: 2.NOV.2016 17:22:51	Mean	21.46 dBm	Peak	24.89 dBm	Crest	3.44 dB	10 %	1.80 dB	1 %	2.64 dB	.1 %	3.08 dB	.01 %	3.28 dB
Mean	22.01 dBm																												
Peak	25.53 dBm																												
Crest	3.51 dB																												
10 %	1.72 dB																												
1 %	2.60 dB																												
.1 %	3.12 dB																												
.01 %	3.36 dB																												
Mean	21.46 dBm																												
Peak	24.89 dBm																												
Crest	3.44 dB																												
10 %	1.80 dB																												
1 %	2.64 dB																												
.1 %	3.08 dB																												
.01 %	3.28 dB																												

**26dB Bandwidth**

Mode	GSM850(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.310	0.295
Middle CH	0.314	0.292
Highest CH	0.314	0.268

Mode	GSM1900(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.304	0.305
Middle CH	0.313	0.299
Highest CH	0.312	0.291

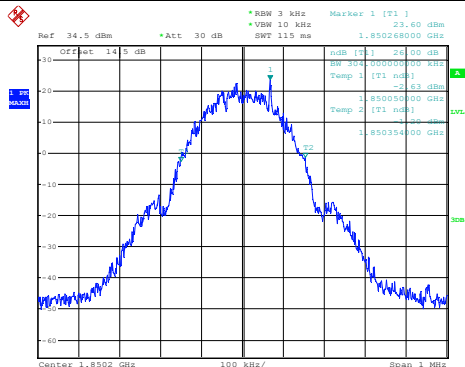
Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.68	4.68
Middle CH	4.68	4.69
Highest CH	4.69	4.69





GSM1900 (GSM)

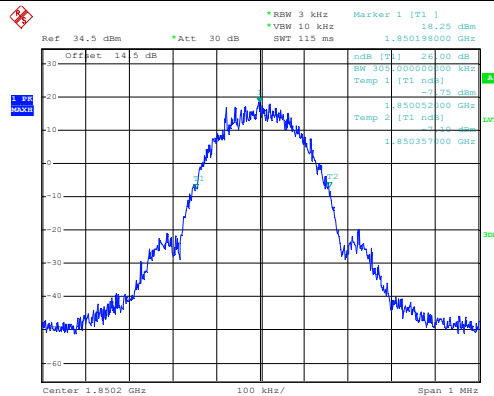
Lowest Channel



Date: 2.NOV.2016 18:12:52

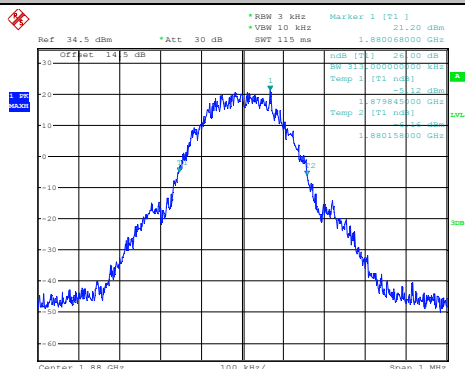
GSM1900 (EDGE class 8)

Lowest Channel



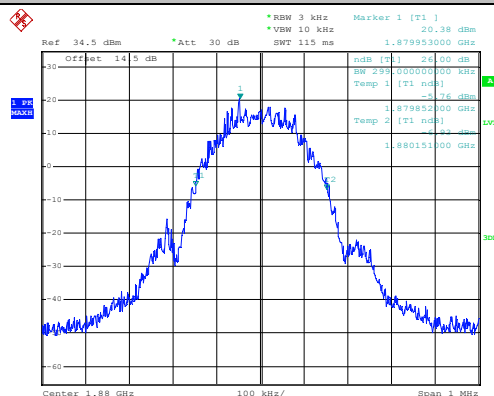
Date: 2.NOV.2016 17:45:08

Middle Channel



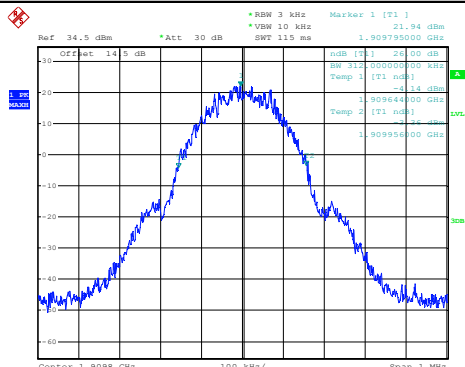
Date: 2.NOV.2016 18:13:20

Middle Channel



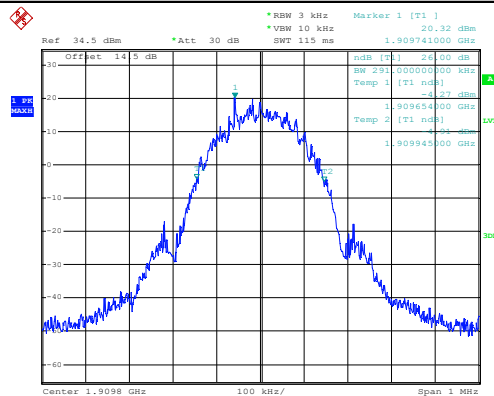
Date: 2.NOV.2016 17:45:46

Highest Channel



Date: 2.NOV.2016 18:13:48

Highest Channel

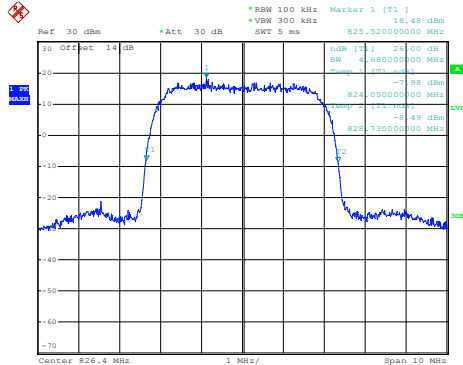


Date: 2.NOV.2016 17:46:22



WCDMA Band V (RMC 12.2Kbps)

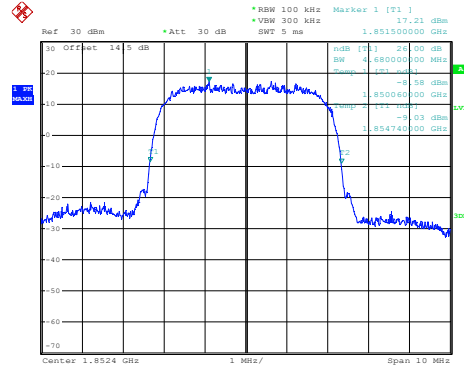
Lowest Channel



Date: 2.NOV.2016 16:49:29

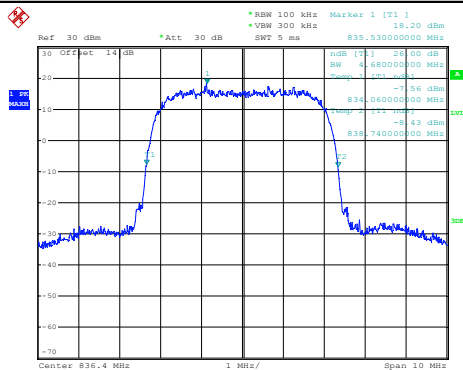
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



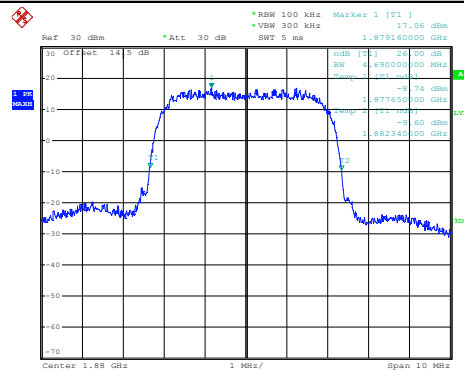
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Middle Channel



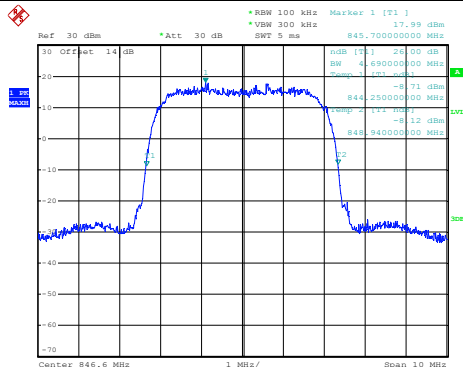
Date: 2.NOV.2016 16:49:57

Middle Channel



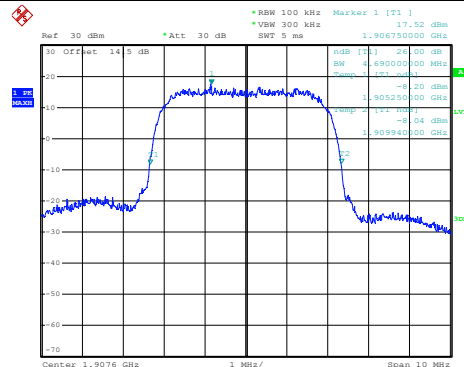
Date: 2.NOV.2016 17:21:39

Highest Channel



Date: 2.NOV.2016 16:50:25

Highest Channel



Date: 2.NOV.2016 17:22:07

**Occupied Bandwidth**

Mode	GSM850(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.244	0.238
Middle CH	0.244	0.237
Highest CH	0.247	0.233

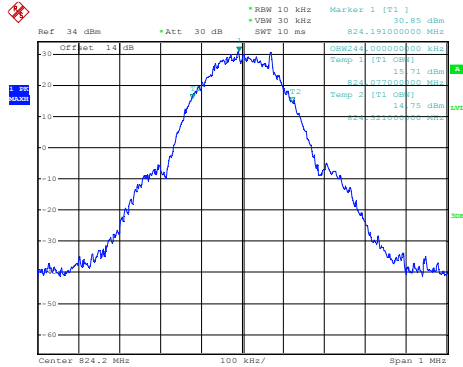
Mode	GSM1900(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.245	0.244
Middle CH	0.246	0.242
Highest CH	0.246	0.246

Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.16	4.15
Middle CH	4.15	4.15
Highest CH	4.16	4.16



GSM850 (GSM)

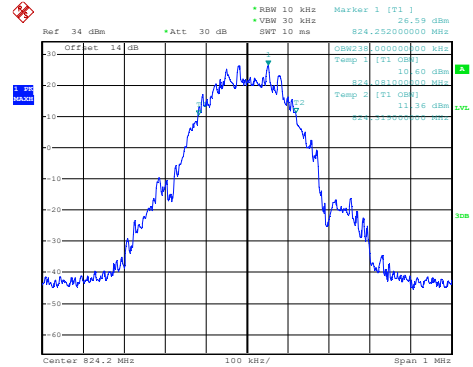
Lowest Channel



Date: 2.NOV.2016 15:49:37

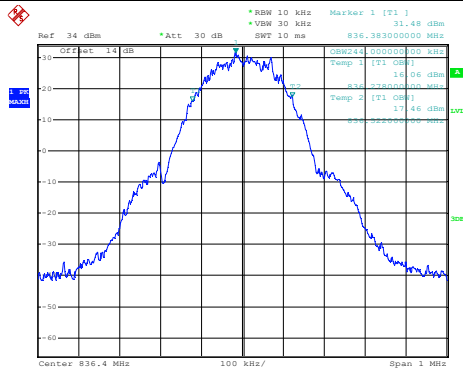
GSM850 (EDGE class 8)

Lowest Channel



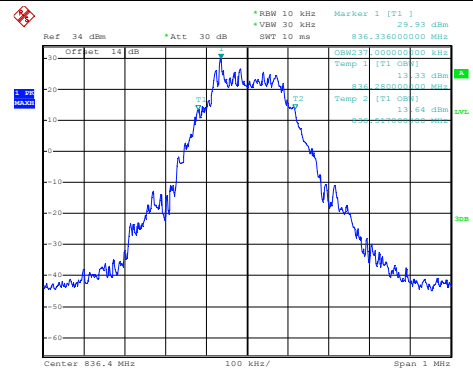
Date: 3.NOV.2016 12:19:24

Middle Channel



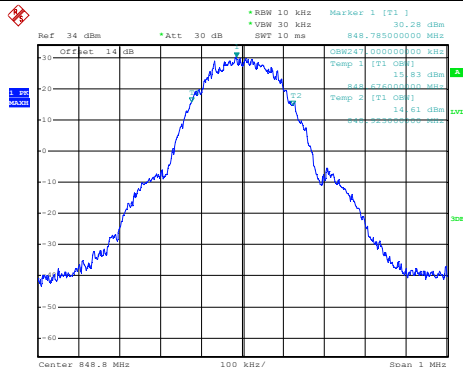
Date: 2.NOV.2016 15:50:05

Middle Channel



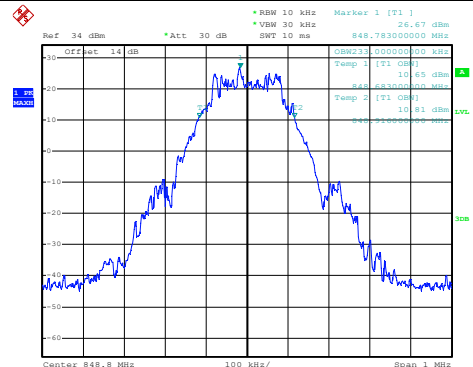
Date: 3.NOV.2016 14:29:51

Highest Channel



Date: 2.NOV.2016 15:50:33

Highest Channel

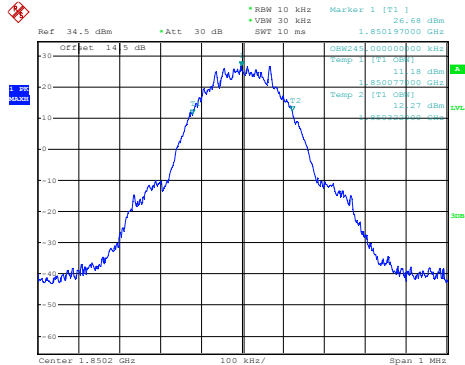


Date: 3.NOV.2016 12:20:20



GSM1900 (GSM)

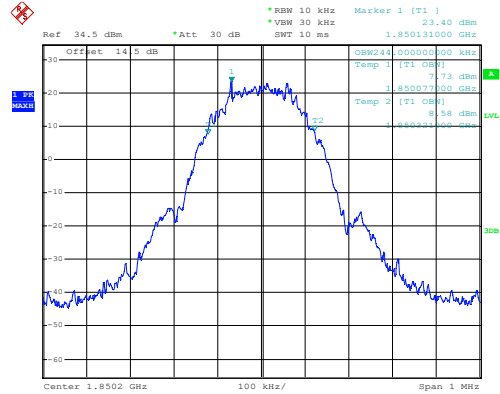
Lowest Channel



Date: 2.NOV.2016 18:18:19

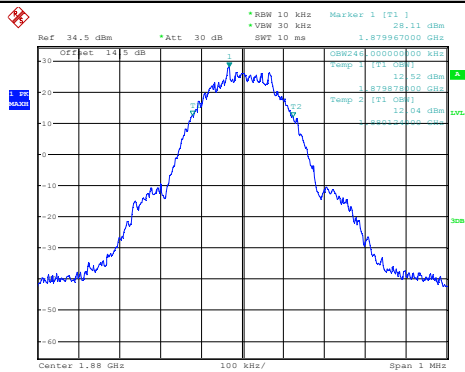
GSM1900 (EDGE class 8)

Lowest Channel



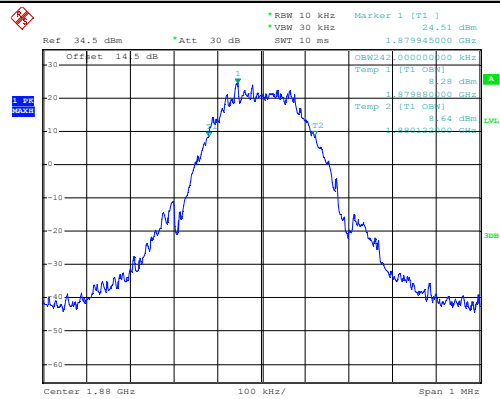
Date: 2.NOV.2016 17:47:09

Middle Channel



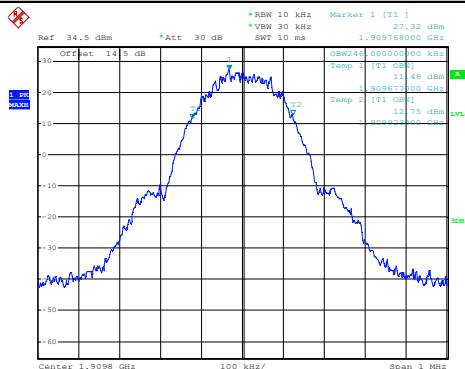
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Middle Channel



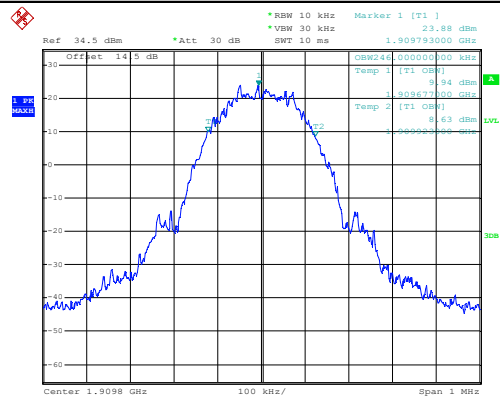
Date: 2.NOV.2016 17:48:09

Highest Channel



Date: 2.NOV.2016 18:19:14

Highest Channel

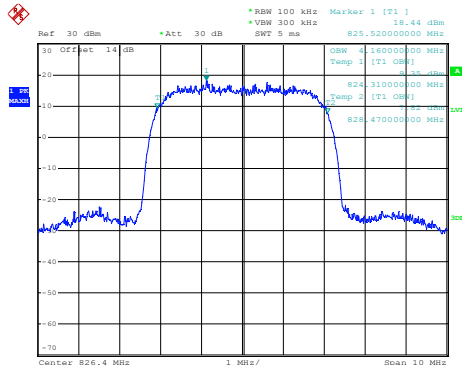


Date: 2.NOV.2016 17:49:32



WCDMA Band V (RMC 12.2Kbps)

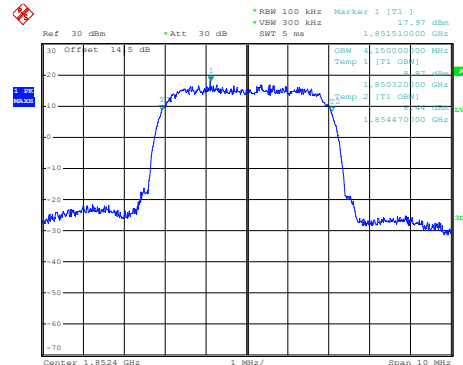
Lowest Channel



Date: 2.NOV.2016 16:51:01

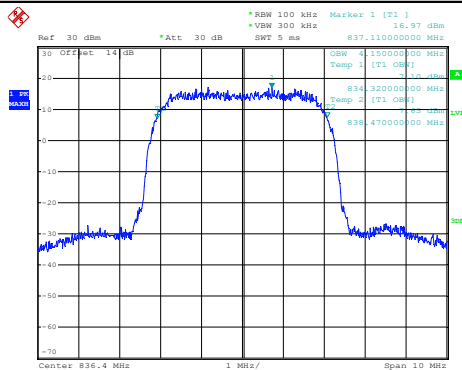
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



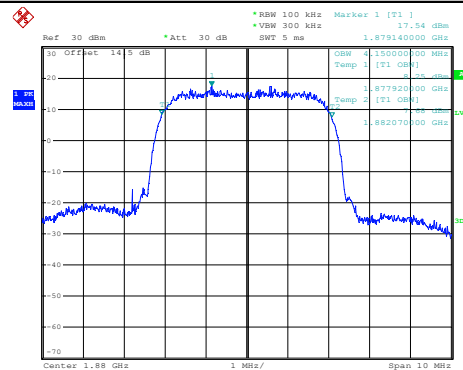
Date: 2.NOV.2016 17:19:37

Middle Channel



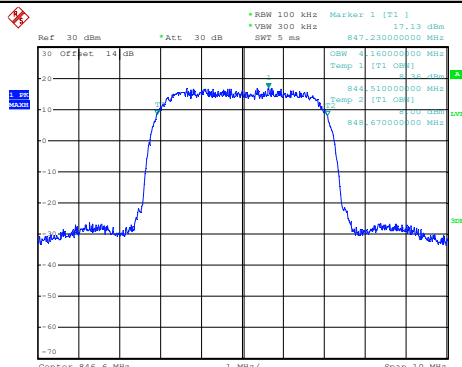
Date: 2.NOV.2016 16:51:29

Middle Channel



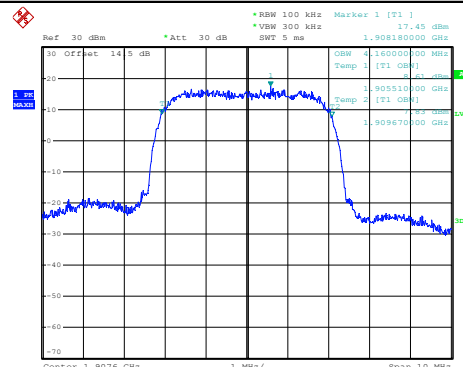
Date: 2.NOV.2016 17:20:05

Highest Channel

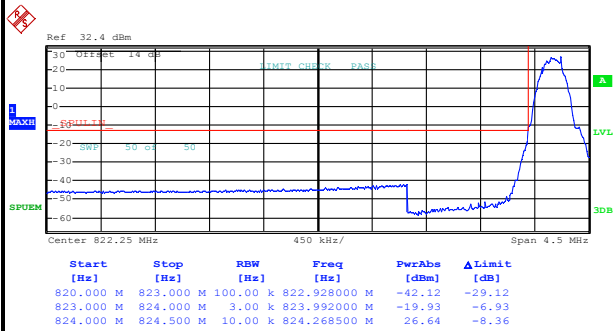


Date: 2.NOV.2016 16:51:57

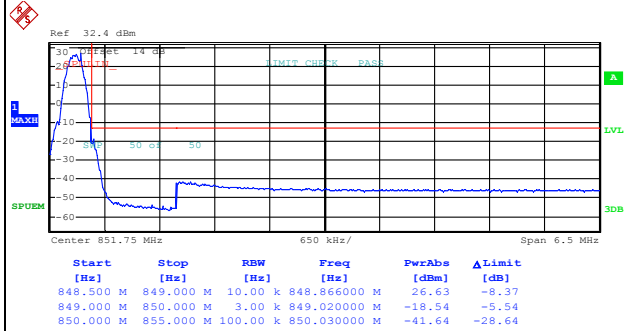
Highest Channel



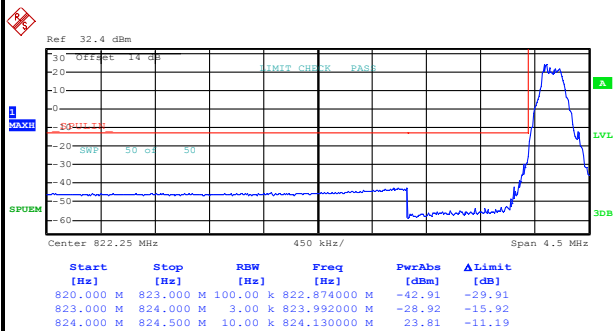
Date: 2.NOV.2016 17:20:33

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

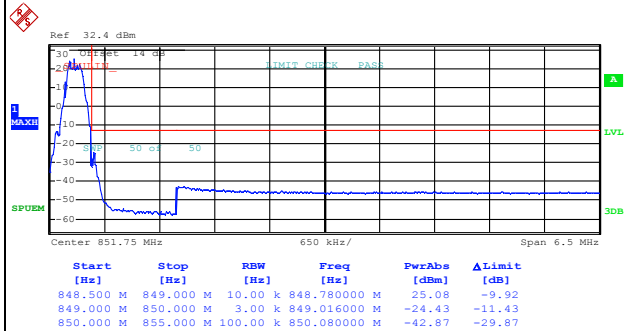
Date: 2.NOV.2016 15:52:13

Highest Band Edge

Date: 2.NOV.2016 15:53:40

GSM850 (EDGE class 8)**Lowest Band Edge**

Date: 3.NOV.2016 11:46:55

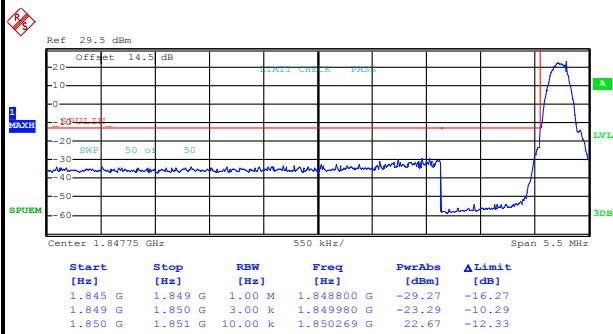
Highest Band Edge

Date: 3.NOV.2016 11:48:22



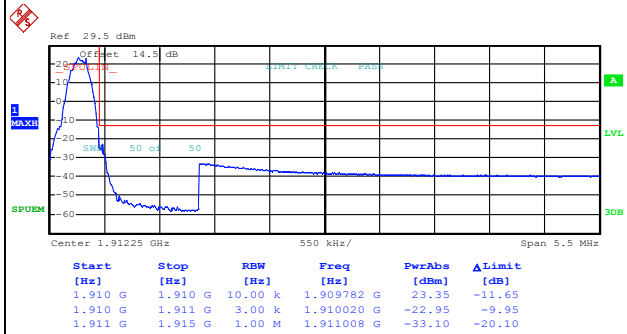
GSM1900 (GSM)

Lowest Band Edge



Date: 2.NOV.2016 18:22:59

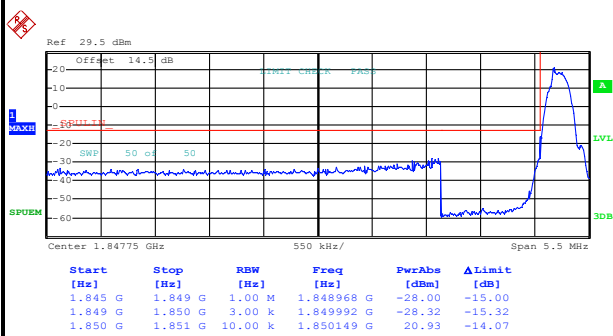
Highest Band Edge



Date: 2.NOV.2016 18:24:26

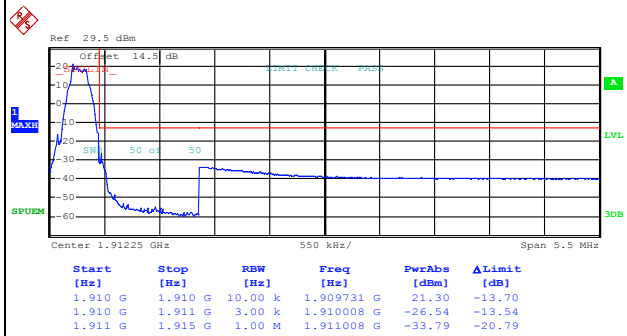
GSM1900 (EDGE class 8)

Lowest Band Edge



Date: 2.NOV.2016 17:51:57

Highest Band Edge

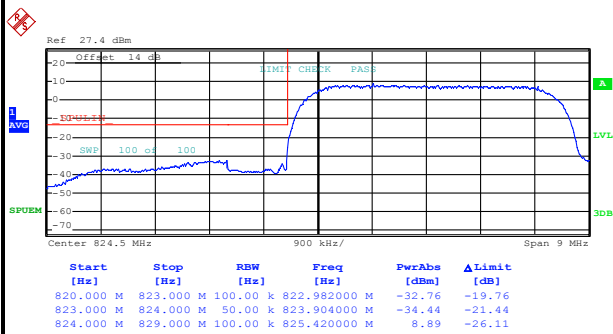


Date: 2.NOV.2016 17:54:38



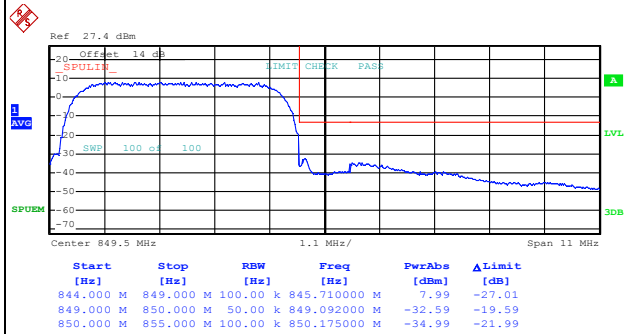
WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge



Date: 2.NOV.2016 16:54:49

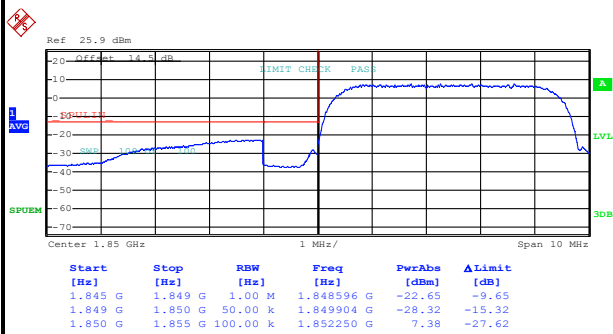
Highest Band Edge



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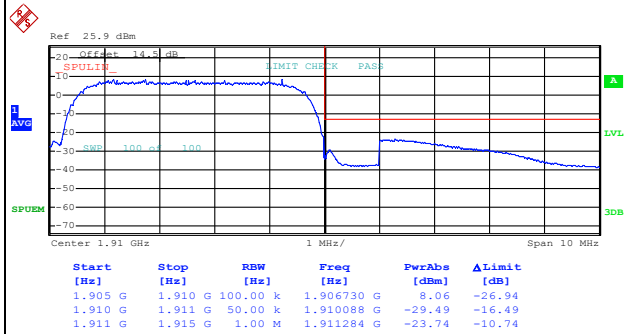
WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge



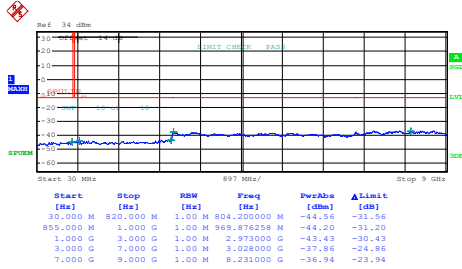
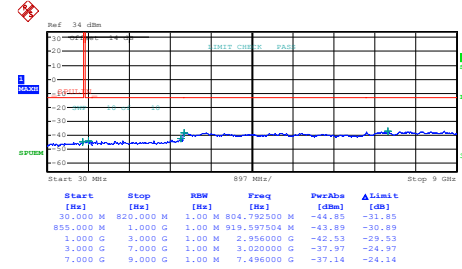
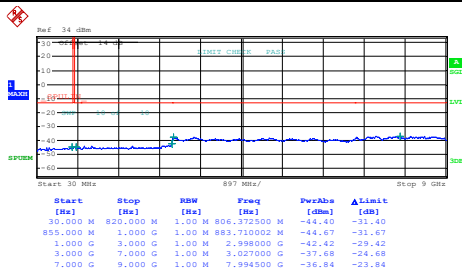
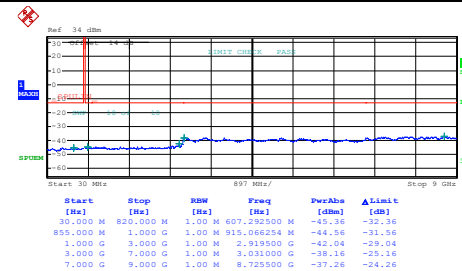
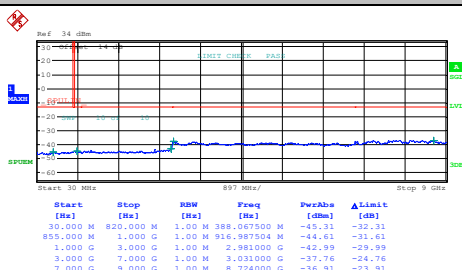
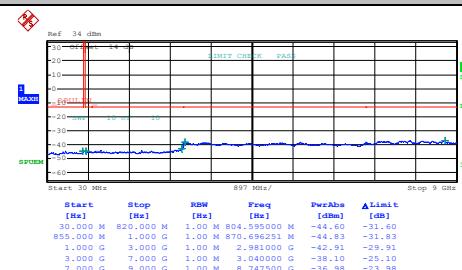
Date: 2.NOV.2016 17:25:43

Highest Band Edge



Date: 2.NOV.2016 17:28:25

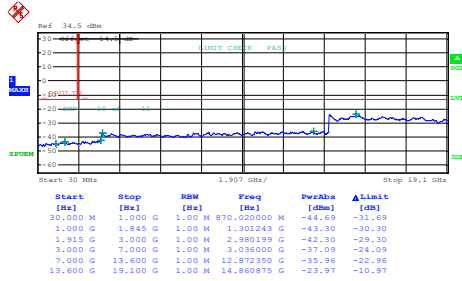
**Conducted Spurious Emission**

GSM850 (GSM)		GSM850 (EDGE class 8)																																																																																					
Lowest Channel		Lowest Channel																																																																																					
<table><tr><th>Start</th><th>Stop</th><th>RBW</th><th>Freq</th><th>PerAbs</th><th>ΔLimit</th></tr><tr><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[dBm]</th><th>[dB]</th></tr><tr><td>30.000 M</td><td>820.000 M</td><td>1.00 M</td><td>804.200000 M</td><td>-44.56</td><td>-31.20</td></tr><tr><td>855.000 M</td><td>1.000 G</td><td>1.00 M</td><td>969.876258 M</td><td>-44.20</td><td>-31.20</td></tr><tr><td>1.000 G</td><td>3.000 G</td><td>1.00 M</td><td>2.978000 G</td><td>-43.43</td><td>-30.43</td></tr><tr><td>3.000 G</td><td>7.000 G</td><td>1.00 M</td><td>3.028000 G</td><td>-37.86</td><td>-24.86</td></tr><tr><td>7.000 G</td><td>9.000 G</td><td>1.00 M</td><td>8.231000 G</td><td>-36.94</td><td>-23.94</td></tr></table> Date: 2.NOV.2016 16:00:39		Start	Stop	RBW	Freq	PerAbs	ΔLimit	[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]	30.000 M	820.000 M	1.00 M	804.200000 M	-44.56	-31.20	855.000 M	1.000 G	1.00 M	969.876258 M	-44.20	-31.20	1.000 G	3.000 G	1.00 M	2.978000 G	-43.43	-30.43	3.000 G	7.000 G	1.00 M	3.028000 G	-37.86	-24.86	7.000 G	9.000 G	1.00 M	8.231000 G	-36.94	-23.94	<table><tr><th>Start</th><th>Stop</th><th>RBW</th><th>Freq</th><th>PerAbs</th><th>ΔLimit</th></tr><tr><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[dBm]</th><th>[dB]</th></tr><tr><td>30.000 M</td><td>820.000 M</td><td>1.00 M</td><td>804.792500 M</td><td>-44.85</td><td>-31.85</td></tr><tr><td>855.000 M</td><td>1.000 G</td><td>1.00 M</td><td>919.597504 M</td><td>-43.89</td><td>-30.89</td></tr><tr><td>1.000 G</td><td>3.000 G</td><td>1.00 M</td><td>2.956000 G</td><td>-42.53</td><td>-29.53</td></tr><tr><td>3.000 G</td><td>7.000 G</td><td>1.00 M</td><td>3.020000 G</td><td>-37.97</td><td>-24.97</td></tr><tr><td>7.000 G</td><td>9.000 G</td><td>1.00 M</td><td>7.496000 G</td><td>-37.14</td><td>-24.14</td></tr></table> Date: 3.NOV.2016 11:55:42		Start	Stop	RBW	Freq	PerAbs	ΔLimit	[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]	30.000 M	820.000 M	1.00 M	804.792500 M	-44.85	-31.85	855.000 M	1.000 G	1.00 M	919.597504 M	-43.89	-30.89	1.000 G	3.000 G	1.00 M	2.956000 G	-42.53	-29.53	3.000 G	7.000 G	1.00 M	3.020000 G	-37.97	-24.97	7.000 G	9.000 G	1.00 M	7.496000 G	-37.14	-24.14
Start	Stop	RBW	Freq	PerAbs	ΔLimit																																																																																		
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855.000 M	1.000 G	1.00 M	969.876258 M	-44.20	-31.20																																																																																		
1.000 G	3.000 G	1.00 M	2.978000 G	-43.43	-30.43																																																																																		
3.000 G	7.000 G	1.00 M	3.028000 G	-37.86	-24.86																																																																																		
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[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]																																																																																		
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Middle Channel		Middle Channel																																																																																					
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Start	Stop	RBW	Freq	PerAbs	ΔLimit																																																																																		
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855.000 M	1.000 G	1.00 M	915.066254 M	-44.56	-31.56																																																																																		
1.000 G	3.000 G	1.00 M	2.919500 G	-42.04	-29.04																																																																																		
3.000 G	7.000 G	1.00 M	3.031000 G	-38.16	-25.16																																																																																		
7.000 G	9.000 G	1.00 M	8.725500 G	-37.26	-24.26																																																																																		
Highest Channel		Highest Channel																																																																																					
<table><tr><th>Start</th><th>Stop</th><th>RBW</th><th>Freq</th><th>PerAbs</th><th>ΔLimit</th></tr><tr><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[dBm]</th><th>[dB]</th></tr><tr><td>30.000 M</td><td>820.000 M</td><td>1.00 M</td><td>388.067500 M</td><td>-45.31</td><td>-32.31</td></tr><tr><td>855.000 M</td><td>1.000 G</td><td>1.00 M</td><td>916.987504 M</td><td>-44.61</td><td>-31.61</td></tr><tr><td>1.000 G</td><td>3.000 G</td><td>1.00 M</td><td>2.980000 G</td><td>-42.99</td><td>-29.99</td></tr><tr><td>3.000 G</td><td>7.000 G</td><td>1.00 M</td><td>3.031000 G</td><td>-37.76</td><td>-24.76</td></tr><tr><td>7.000 G</td><td>9.000 G</td><td>1.00 M</td><td>8.724000 G</td><td>-36.91</td><td>-23.91</td></tr></table> Date: 2.NOV.2016 16:02:08		Start	Stop	RBW	Freq	PerAbs	ΔLimit	[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]	30.000 M	820.000 M	1.00 M	388.067500 M	-45.31	-32.31	855.000 M	1.000 G	1.00 M	916.987504 M	-44.61	-31.61	1.000 G	3.000 G	1.00 M	2.980000 G	-42.99	-29.99	3.000 G	7.000 G	1.00 M	3.031000 G	-37.76	-24.76	7.000 G	9.000 G	1.00 M	8.724000 G	-36.91	-23.91	<table><tr><th>Start</th><th>Stop</th><th>RBW</th><th>Freq</th><th>PerAbs</th><th>ΔLimit</th></tr><tr><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[dBm]</th><th>[dB]</th></tr><tr><td>30.000 M</td><td>820.000 M</td><td>1.00 M</td><td>804.595000 M</td><td>-44.60</td><td>-31.60</td></tr><tr><td>855.000 M</td><td>1.000 G</td><td>1.00 M</td><td>870.696251 M</td><td>-44.83</td><td>-31.83</td></tr><tr><td>1.000 G</td><td>3.000 G</td><td>1.00 M</td><td>2.981000 G</td><td>-42.91</td><td>-29.91</td></tr><tr><td>3.000 G</td><td>7.000 G</td><td>1.00 M</td><td>3.040000 G</td><td>-38.10</td><td>-25.10</td></tr><tr><td>7.000 G</td><td>9.000 G</td><td>1.00 M</td><td>8.747500 G</td><td>-36.98</td><td>-23.98</td></tr></table> Date: 3.NOV.2016 11:57:11		Start	Stop	RBW	Freq	PerAbs	ΔLimit	[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]	30.000 M	820.000 M	1.00 M	804.595000 M	-44.60	-31.60	855.000 M	1.000 G	1.00 M	870.696251 M	-44.83	-31.83	1.000 G	3.000 G	1.00 M	2.981000 G	-42.91	-29.91	3.000 G	7.000 G	1.00 M	3.040000 G	-38.10	-25.10	7.000 G	9.000 G	1.00 M	8.747500 G	-36.98	-23.98
Start	Stop	RBW	Freq	PerAbs	ΔLimit																																																																																		
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7.000 G	9.000 G	1.00 M	8.747500 G	-36.98	-23.98																																																																																		



GSM1900 (GSM)

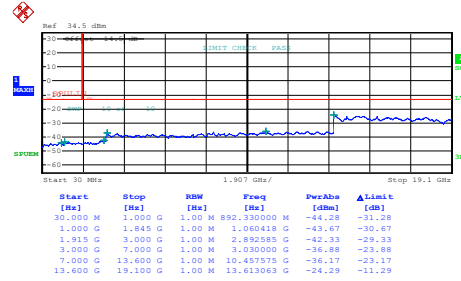
Lowest Channel



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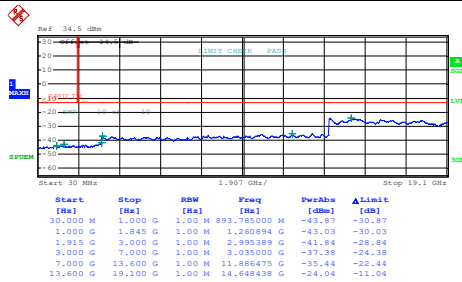
GSM1900 (EDGE class 8)

Lowest Channel



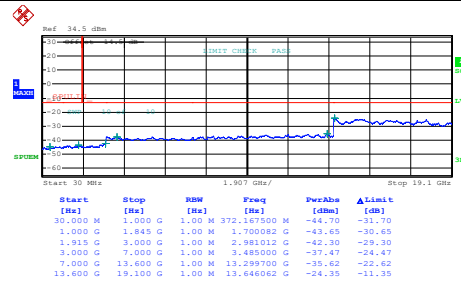
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Middle Channel



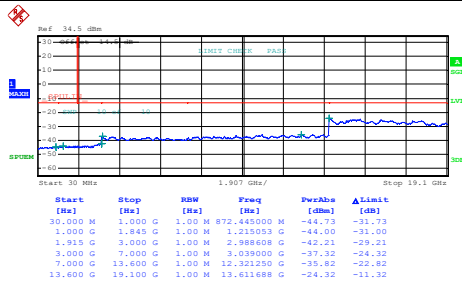
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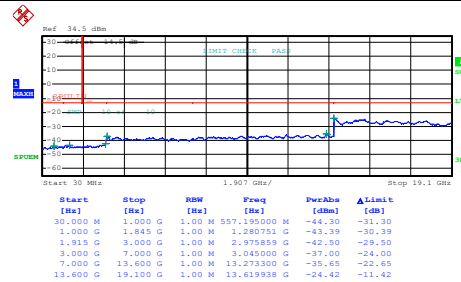
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Highest Channel



Date: 3.NOV.2016 09:50:43

Highest Channel

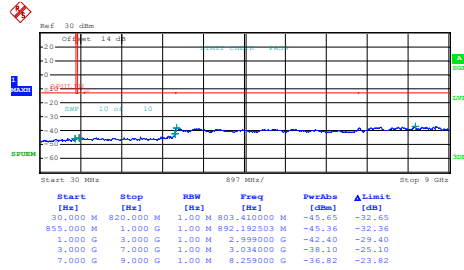


Date: 2.NOV.2016 18:04:43



WCDMA Band V (RMC 12.2Kbps)

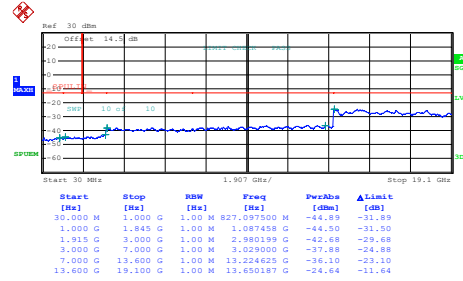
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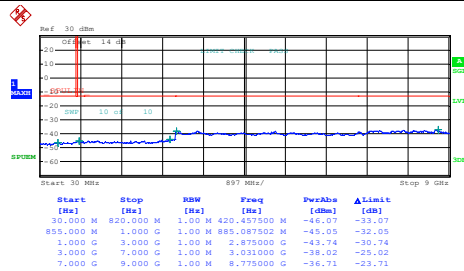
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



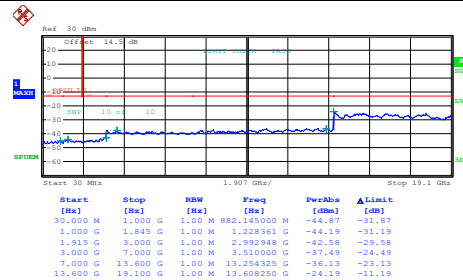
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Middle Channel



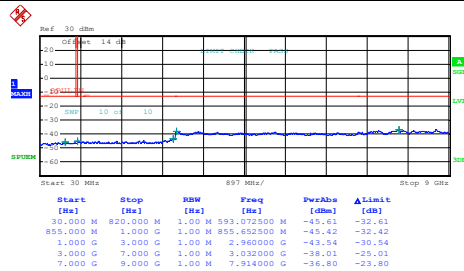
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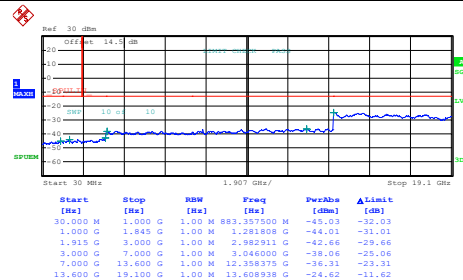
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Highest Channel



Date: 2.NOV.2016 17:08:41

Highest Channel



Date: 2.NOV.2016 17:18:34

**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	0.0251	0.0036	PASS
40	Normal Voltage	0.0143	0.0024	
30	Normal Voltage	0.0263	0.0275	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0132	0.0155	
0	Normal Voltage	0.0395	0.0096	
-10	Normal Voltage	0.0120	0.0024	
-20	Normal Voltage	0.0167	0.0215	
-30	Normal Voltage	0.0311	0.0084	
20	Maximum Voltage	0.0012	0.0060	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0048	0.0108	

Note: Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.4 V

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0053	0.0060	PASS
40	Normal Voltage	0.0043	0.0132	
30	Normal Voltage	0.0069	0.0036	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0074	0.0108	
0	Normal Voltage	0.0032	0.0012	
-10	Normal Voltage	0.0090	0.0096	
-20	Normal Voltage	0.0064	0.0120	
-30	Normal Voltage	0.0011	0.0072	
20	Maximum Voltage	0.0096	0.0048	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0037	0.0143	

Note:

1. Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.4 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 V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0016	PASS
40	Normal Voltage	0.0106	
30	Normal Voltage	0.0048	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0027	
-10	Normal Voltage	0.0064	
-20	Normal Voltage	0.0128	
-30	Normal Voltage	0.0053	
20	Maximum Voltage	0.0085	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0032	

Note: Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.4 V

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0120	PASS
40	Normal Voltage	0.0191	
30	Normal Voltage	0.0215	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0227	
0	Normal Voltage	0.0132	
-10	Normal Voltage	0.0239	
-20	Normal Voltage	0.0179	
-30	Normal Voltage	0.0203	
20	Maximum Voltage	0.0060	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0167	

Note:

1. Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.4 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	0.4603	20.60	0.1148
Middle		26.82	0.4808	21.30	0.1349
Highest		26.02	0.3999	21.06	0.1276
Lowest	GSM850 EDGE class 8	19.06	0.0805	12.40	0.0174
Middle		19.13	0.0818	12.93	0.0196
Highest		19.24	0.0839	13.28	0.0213
Lowest	WCDMA Band V RMC 12.2Kbps	14.43	0.0277	9.68	0.0093
Middle		14.92	0.0310	9.78	0.0095
Highest		15.43	0.0349	9.79	0.0095
Limit	ERP < 7W	Result		PASS	

Channel	Mode	Horizontal		Vertical	
		EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	GSM1900 GSM	28.05	0.6383	28.19	0.6592
Middle		28.50	0.7079	28.55	0.7161
Highest		28.22	0.6637	28.20	0.6607
Lowest	GSM1900 EDGE class 8	23.84	0.2421	23.59	0.2286
Middle		25.10	0.3236	25.11	0.3243
Highest		24.34	0.2716	25.15	0.3273
Lowest	WCDMA Band II RMC 12.2Kbps	19.63	0.0918	19.95	0.0989
Middle		19.67	0.0927	19.90	0.0977
Highest		19.95	0.0989	20.04	0.1009
Limit	EIRP < 2W	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)
Middle	1672	-56.90	-13	-43.90	-59.73	-63.59	0.56	9.40	H
	2510	-36.95	-13	-23.95	-46.56	-44.66	0.74	10.60	H
	3346	-57.77	-13	-44.77	-66.58	-67.37	0.85	12.60	H
	1672	-60.40	-13	-47.40	-62.06	-67.09	0.56	9.40	V
	2510	-43.70	-13	-30.70	-51.78	-51.41	0.74	10.60	V
	3346	-59.08	-13	-46.08	-67.22	-68.68	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)
Middle	1672	-56.22	-13	-43.22	-59.05	-62.91	0.56	9.40	H
	2510	-40.17	-13	-27.17	-49.39	-47.88	0.74	10.60	H
	3346	-58.73	-13	-45.73	-67.54	-68.33	0.85	12.60	H
	1672	-63.02	-13	-50.02	-64.68	-69.71	0.56	9.40	V
	2510	-43.89	-13	-30.89	-51.95	-51.60	0.74	10.60	V
	3346	-59.01	-13	-46.01	-67.15	-68.61	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)
Middle	3760	-54.40	-13	-41.40	-67.95	-60.44	6.56	12.60	H
	5640	-49.28	-13	-36.28	-65.22	-54.38	8	13.10	H
	7520	-50.07	-13	-37.07	-68.81	-51.80	9.57	11.30	H
	3760	-54.07	-13	-41.07	-67.42	-60.11	6.56	12.6	V
	5640	-51.36	-13	-38.36	-68.71	-56.46	8	13.1	V
	7520	-49.96	-13	-36.96	-68.36	-51.69	9.57	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)
Middle	3760	-53.50	-13	-40.50	-67.05	-59.54	6.56	12.60	H
	5640	-49.73	-13	-36.73	-65.67	-54.83	8	13.10	H
	7520	-50.52	-13	-37.52	-69.26	-52.25	9.57	11.30	H
	3760	-54.77	-13	-41.77	-68.12	-60.81	6.56	12.6	V
	5640	-51.14	-13	-38.14	-68.49	-56.24	8	13.1	V
	7520	-50.74	-13	-37.74	-69.14	-52.47	9.57	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)
Middle	1672	-60.46	-13	-47.46	-63.29	-67.15	0.56	9.40	H
	2510	-56.90	-13	-43.90	-62.64	-64.61	0.74	10.60	H
	3346	-57.50	-13	-44.50	-66.31	-67.10	0.85	12.60	H
	1672	-61.12	-13	-48.12	-62.78	-67.81	0.56	9.40	V
	2510	-58.99	-13	-45.99	-64.57	-66.70	0.74	10.60	V
	3346	-58.34	-13	-45.34	-66.48	-67.94	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)
Middle	3760	-52.98	-13	-39.98	-66.53	-59.02	6.56	12.60	H
	5640	-50.05	-13	-37.05	-65.99	-55.15	8	13.10	H
	7520	-49.86	-13	-36.86	-68.60	-51.59	9.57	11.30	H
	3760	-53.96	-13	-40.96	-67.31	-60.00	6.56	12.6	V
	5640	-44.39	-13	-31.39	-61.74	-49.49	8	13.1	V
	7520	-50.13	-13	-37.13	-68.53	-51.86	9.57	11.3	V

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