## **FCC RF Test Report**

APPLICANT : BLU Products, Inc.

EQUIPMENT : Smartphone

: BLU BRAND NAME

: DASH M2 MODEL NAME

FCC ID : YHLBLUDASHM2

STANDARD : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)

CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Mar. 01, 2016 and testing was completed on Mar. 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.

Prepared by: Ken Chen / Manager

lon Chen

Approved by: Jones Tsai / Manager

## SPORTON INTERNATIONAL (SHENZHEN) INC.

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SPORTON INTERNATIONAL (SHENZHEN) INC.

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: Rev. 01

Testing Laboratory 2353

Report No.: FG630104

Report Version Report Template No.: BU5-FG22/24/27 Version 1.1

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## **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG630104	Rev. 01	Initial issue of report	Mar. 29, 2016

SPORTON INTERNATIONAL (SHENZHEN) INC.

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## **SUMMARY OF TEST RESULT**

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

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Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
	§22.913(a)(2)	RSS-132(5.4) SRSP-503(5.1.3)	Effective Radiated Power	< 7 Watts	PASS	-
4.4	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
	§27.50(d)(4)	RSS-139 (6.5) SRSP-513(5.1.2)	Equivalent Isotropic Radiated Power	< 1 Watts	PASS	-
4.5	§2.1053 §22.917(a) §24.238(a) §27.53(h)	RSS-132 (5.5) RSS-133 (6.5) RSS-139 (6.6)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 28.13 dB at 5729.400 MHz

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## 1 General Description

## 1.1 Applicant

**BLU Products, Inc.** 

10814 NW 33rd St # 100 Doral, FL 33172

#### 1.2 Manufacturer

**BLU Products, Inc.** 

10814 NW 33rd St # 100 Doral, FL 33172

## 1.3 Product Feature of Equipment Under Test

Product Feature				
Equipment	Smartphone			
Brand Name	BLU			
Model Name	DASH M2			
FCC ID	YHLBLUDASHM2			
	GSM/GPRS/EGPRS/WCDMA/HSPA/			
EUT supports Radios application	HSPA+(16QAM uplink is not supported)/			
Lot supports Radios application	WLAN 2.4GHz 802.11b/g/n HT20/HT40/			
	Bluetooth v3.0+EDR/Bluetooth v4.0 LE			
	Conducted: 353919027804222/353919027854227			
IMEI Code	Radiation: 353919027804347/353919027854342			
	ERP/EIRP: 353919027804347/353919027854342			
HW Version	V1.0			
SW Version	BLU_DASHMII_V02_GENERIC			
EUT Stage	Pre-Production			

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

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## 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification				
	GSM/GPF	RS/EDGE:		
	850:	824.2 MHz ~ 848.8 MHz		
	1900:	1850.2 MHz ~ 1909.8MHz		
Tx Frequency	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		
	GSM/GPF	RS/EDGE:		
	850:	869.2 MHz ~ 893.8 MHz		
	1900:	1930.2 MHz ~ 1989.8 MHz		
Rx Frequency	WCDMA:			
	Band V:	871.4 MHz ~ 891.6 MHz		
		1932.4 MHz ~ 1987.6 MHz		
	Band IV:	2112.4 MHz ~ 2152.6 MHz		
	GSM/GPRS/EDGE:			
	850:	31.86 dBm		
	1900:	28.95 dBm		
Maximum Output Power to Antenna	WCDMA:			
	Band V:	22.80 dBm		
	Band II:	22.88 dBm		
	Band IV:	21.73 dBm		
Antenna Type	PIFA Anten	na		
	GSM: GMS			
	GPRS: GM			
Type of Modulation	EDGE: GM			
Type of Modulation	WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink)			
	HSUPA: QPSK (Uplink)			
		QAM (Uplink is not supported)		

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#### 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	0.7056	0.0371 ppm	248KGXW
Part 22H	GSM850 EDGE class 8	8PSK	0.2448	0.0430 ppm	248KG7W
Part 22H	WCDMA Band V RMC 12.2Kbps	QPSK	0.0953	0.0059 ppm	4M16F9W
Part 24E	GSM1900 GSM	GMSK	1.3347	0.0351 ppm	246KGXW
Part 24E	GSM1900 EDGE class 8	8PSK	0.7098	0.0213 ppm	250KG7W
Part 24E	WCDMA Band II RMC 12.2Kbps	QPSK	0.3014	0.0027 ppm	4M17F9W
Part 27L	WCDMA Band IV RMC 12.2Kbps	QPSK	0.1959	0.0085 ppm	4M19F9W

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#### 1.7 Testing Location

Test Site SPORTON INTERNATIONAL (SHENZHEN) INC.				
	1F & 2F,Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town,			
	Nanshan District, Shenzhen, Guangdong, P. R. China			
Test Site Location	TEL: +86-755-8637-9589			
	FAX: +86-755-8637-9595			
Toot Site No	Sporton Site No.			
Test 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			
O N	Sporton Site No.	FCC/IC Registration No.		
Test Site No.	03CH02-SZ	566869/4086F		

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

## 1.8 Applicable Standards

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

- 47 CFR Part 2, 22(H), 24(E), 27(L)
- ANSI / TIA / EIA-603-D-2010
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02

#### Remark:

- 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.

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## 2 Test Configuration of Equipment Under Test

#### 2.1 Test Mode

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

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

Radiated emissions were investigated as following frequency range:

- 1. 30 MHz to 10th harmonic for GSM850 and WCDMA Band V.
- 2. 30 MHz to 10th harmonic for WCDMA Band IV.
- 3. 30 MHz to 10th harmonic for GSM1900 and WCDMA Band II.

All modes and data rates and positions were investigated.

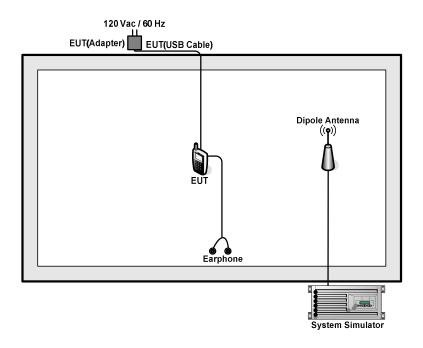
Test modes are chosen to be reported as the worst case configuration below:

Test Modes						
Band	Radiated TCs	Conducted TCs				
GSM 850	■ GSM Link	■ GSM Link				
GSIVI 650	■ EDGE class 8 Link	■ EDGE class 8 Link				
CSM 4000	■ GSM Link	■ GSM Link				
GSM 1900	■ EDGE class 8 Link	■ EDGE class 8 Link				
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link				
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link				
WCDMA Band IV	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link				

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## 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	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	TOPWORD	3303DR	N/A	N/A	Unshielded, 1.8 m
3.	Earphone	Lenovo	SH100	N/A	Unshielded, 1.2 m	N/A

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## 2.4 Measurement Results Explanation Example

#### For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

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

#### Example:

$$Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$$
  
= 4.5 + 10 = 14.5 (dB)

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#### 3 Conducted Test Result

#### 3.1 Measuring Instruments

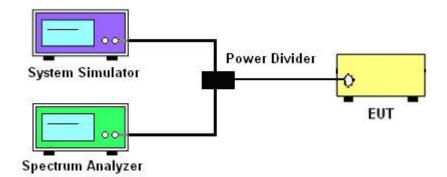
See list of measuring instruments of this test report.

#### 3.2 Test Setup

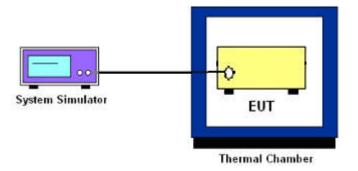
#### 3.2.1 Conducted Output Power



# 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.

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#### 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.
- 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%.

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#### 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.
- 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.
- 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.
- The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.The path loss was compensated to the results for each measurement.
- 4. The band edges of low and high channels for the highest RF powers were measured.
- 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 6. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
  - = P(W) [43 + 10log(P)] (dB)
  - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
  - = -13dBm.

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#### 3.8 Conducted Spurious Emission

#### 3.8.1 Description of Conducted Spurious Emission Measurement

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

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10<sup>th</sup> harmonic.

#### 3.8.2 Test Procedures

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

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#### 3.9 Frequency Stability

#### 3.9.1 Description of Frequency Stability Measurement

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

#### 3.9.2 Test Procedures for Temperature Variation

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

#### 3.9.3 Test Procedures for Voltage Variation

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

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#### 4 Radiated Test Items

## 4.1 Measuring Instruments

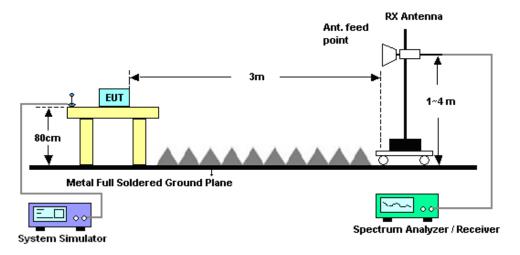
See list of measuring instruments of this test report.

## 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.

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## 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

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

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	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

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#### 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

- 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.
- The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
- 6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
- 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 9. Taking the record of output power at antenna port.
- 10. Repeat step 7 to step 8 for another polarization.
- 11. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 12.ERP (dBm) = EIRP 2.15
- 13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
  - = P(W) [43 + 10log(P)] (dB)
  - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
  - = -13dBm.

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## **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	Mar. 01, 2016~ Mar. 02, 2016	Jan. 11, 2017	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Aug. 07, 2015	Mar. 01, 2016~ Mar. 02, 2016	Aug. 06, 2016	Conducted (TH01-SZ)
Spectrum Analyzer	R&S	FSV40	101041	10kHz~40GHz; Max 30dBm	Oct. 20, 2015	Mar. 23, 2016	Oct. 19, 2016	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	May 06, 2015	Mar. 23, 2016	May 05, 2016	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1285	1GHz~18GHz	Jan. 11, 2016	Mar. 23, 2016	Jan. 10, 2017	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Aug. 17, 2015	Mar. 23, 2016	Aug. 16, 2016	Radiation (03CH02-SZ)
Amplifier	HP	8447F	3113A04622	9kHz ~1300MHz / 30 dB	Aug. 07, 2015	Mar. 23, 2016	Aug. 06, 2016	Radiation (03CH02-SZ)
Amplifier	Agilent	8449B	3008A01023	1GHz~26.5GHz	Oct. 20, 2015	Mar. 23, 2016	Oct. 19, 2016	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	61601000247 0	N/A	NCR	Mar. 23, 2016	NCR	Radiation (03CH02-SZ
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Mar. 23, 2016	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Mar. 23, 2016	NCR	Radiation (03CH02-SZ)

NCR: No Calibration Required

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## 6 Uncertainty of Evaluation

<u>Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)</u>

	1
Measuring Uncertainty for a Level of	5.0dB
Confidence of 95% (U = 2Uc(y))	5.Vub

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## **Appendix A. Test Results of Conducted Test**

## **Conducted Output Power (Average power)**

#### **SIM 1:**

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	<mark>31.86</mark>	31.79	31.78	28.78	28.84	<mark>28.95</mark>		
GPRS class 8	31.85	31.78	31.75	28.75	28.82	28.93		
GPRS class 10	30.91	30.85	30.82	27.82	27.88	28.01		
GPRS class 11	29.11	29.06	29.02	26.02	26.07	26.23		
GPRS class 12	28.28	28.25	28.22	25.22	25.24	25.36		
EGPRS class 8	26.39	26.26	26.21	24.84	24.96	24.80		
EGPRS class 10	25.39	25.37	25.29	23.85	23.98	23.78		
EGPRS class 11	23.21	23.20	23.14	21.73	21.78	21.55		
EGPRS class 12	21.99	21.98	21.89	20.45	20.58	20.32		

Conducted Power (*Unit: dBm)									
Band	WC	DMA Bar	nd V	WC	DMA Baı	nd II	WCI	WCDMA Band IV	
Channel	4132	4182	4233	9262	9400	9538	1312	1413	1513
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6
AMR 12.2Kbps	22.75	22.76	22.79	22.83	22.87	22.83	21.51	21.71	21.50
RMC 12.2Kbps	22.78	22.78	<mark>22.80</mark>	22.85	<mark>22.88</mark>	22.84	21.53	<mark>21.73</mark>	21.52
HSDPA Subtest-1	21.95	21.91	21.98	21.46	21.52	21.31	20.18	20.58	20.49
HSDPA Subtest-2	21.94	21.94	21.97	21.49	21.42	21.32	20.17	20.56	20.48
HSDPA Subtest-3	21.44	21.46	21.51	20.99	20.95	20.82	19.73	20.09	20.05
HSDPA Subtest-4	21.41	21.45	21.47	20.97	20.95	20.81	19.70	20.06	20.00
HSUPA Subtest-1	19.89	19.91	19.93	19.43	19.48	19.35	18.27	18.57	18.53
HSUPA Subtest-2	19.89	19.90	19.90	19.41	19.45	19.31	18.24	18.62	18.52
HSUPA Subtest-3	20.88	20.84	20.92	20.41	20.43	20.31	19.22	19.56	19.46
HSUPA Subtest-4	19.38	19.34	19.39	18.88	18.96	18.78	17.70	18.06	17.98
HSUPA Subtest-5	21.90	21.90	21.90	21.50	21.40	21.30	20.20	20.50	20.50

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## SIM 2:

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	<mark>31.84</mark>	31.78	31.75	28.77	28.82	<mark>28.94</mark>		
GPRS class 8	31.82	31.75	31.72	28.73	28.80	28.90		
GPRS class 10	30.90	30.82	30.80	27.80	27.87	28.00		
GPRS class 11	29.06	29.04	29.01	26.01	26.06	26.21		
GPRS class 12	28.26	28.24	28.20	25.20	25.22	25.35		
EGPRS class 8	26.35	26.22	26.18	24.80	24.91	24.68		
EGPRS class 10	25.38	25.35	25.27	23.81	23.95	23.75		
EGPRS class 11	23.20	23.18	23.13	21.72	21.73	21.52		
EGPRS class 12	21.94	21.97	21.85	20.40	20.57	20.30		

	Conducted Power (*Unit: dBm)									
Band	WC	DMA Bar	nd V	WC	DMA Baı	nd II	WCI	WCDMA Band IV		
Channel	4132	4182	4233	9262	9400	9538	1312	1413	1513	
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6	
AMR 12.2Kbps	22.72	22.70	22.77	22.79	22.81	22.78	21.47	21.70	21.45	
RMC 12.2Kbps	22.75	22.72	<mark>22.78</mark>	22.80	<mark>22.84</mark>	22.80	21.48	<mark>21.72</mark>	21.49	
HSDPA Subtest-1	21.92	21.88	21.94	21.45	21.43	21.26	20.15	20.54	20.45	
HSDPA Subtest-2	21.93	21.91	21.95	21.46	21.41	21.27	20.12	20.53	20.46	
HSDPA Subtest-3	21.43	21.42	21.50	20.95	20.93	20.78	19.70	20.03	20.01	
HSDPA Subtest-4	21.38	21.40	21.45	20.96	20.92	20.76	19.68	20.03	19.94	
HSUPA Subtest-1	19.85	19.90	19.91	19.42	19.46	19.30	18.26	18.56	18.50	
HSUPA Subtest-2	19.82	19.89	19.86	19.38	19.44	19.24	18.22	18.54	18.48	
HSUPA Subtest-3	20.87	20.80	20.90	20.40	20.36	20.30	19.20	19.53	19.41	
HSUPA Subtest-4	19.35	19.32	19.36	18.85	18.93	18.75	17.68	18.05	17.89	
HSUPA Subtest-5	21.85	21.88	21.88	21.48	21.37	21.24	20.17	20.42	20.47	

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## Peak-to-Average Ratio

Mode	GSN	Limit: 13dB	
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.20	2.92	
Middle CH	0.20	3.16	PASS
Highest CH	0.20	3.16	

Mode	GSM	Limit: 13dB	
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.24	3.08	
Middle CH	0.24	3.12	PASS
Highest CH	0.24	3.16	]

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	2.88	2.68	2.92	
Middle CH	2.68	2.80	2.48	PASS
Highest CH	2.84	2.52	2.48	

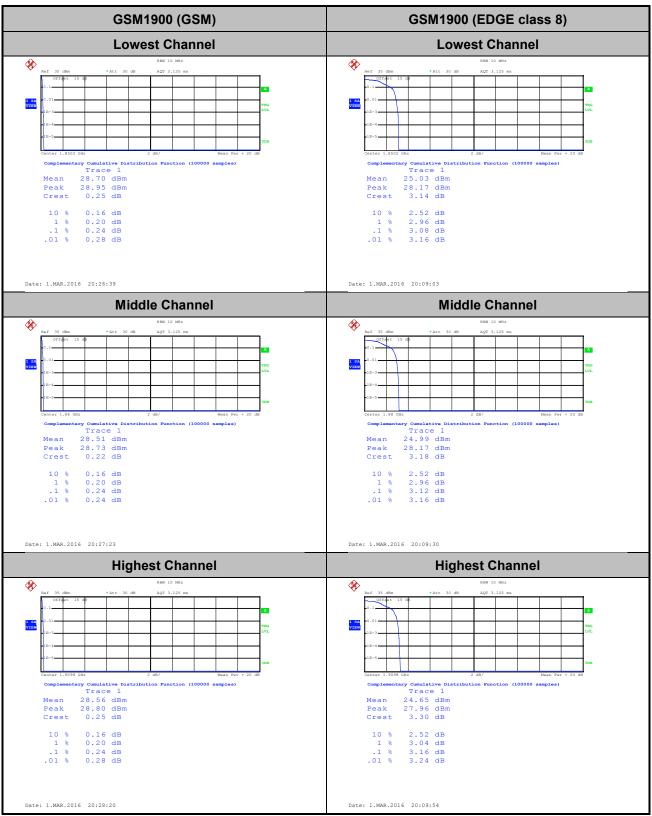
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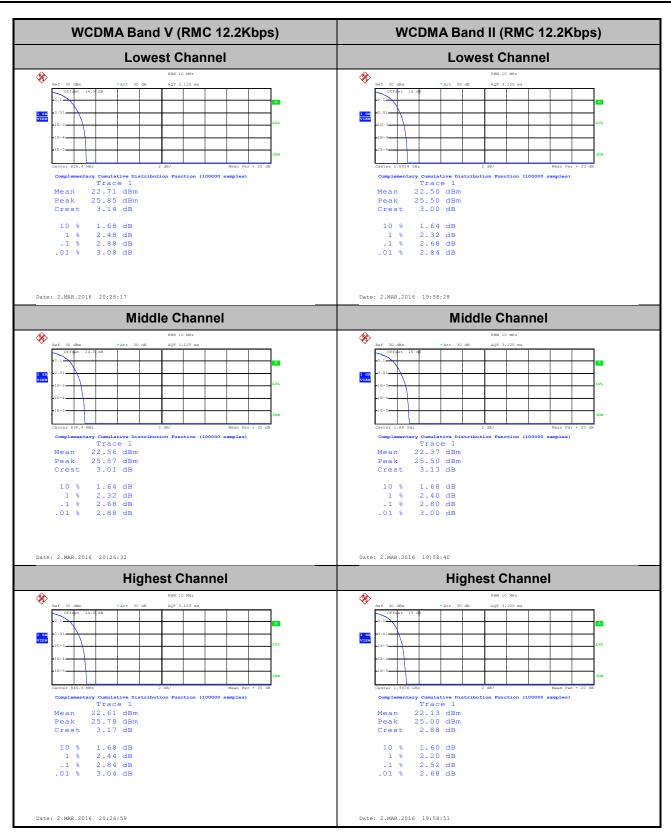
GSM850 (EDGE class 8) GSM850 (GSM) **Lowest Channel Lowest Channel % %** 1 SA VIEW Trace 1 31.85 dBm 32.04 dBm 0.19 dB Trace 1 26.19 dBm 29.15 dBm 2.96 dB Peak Crest Crest 0.16 dB 0.20 dB 0.20 dB 0.20 dB 2.48 dB 2.84 dB 2.92 dB 2.96 dB 10 % 1 % .1 % Date: 1.MAR.2016 19:22:34 Date: 1.MAR.2016 19:46:15 **Middle Channel Middle Channel** \* \* Trace 1 25.88 dBm 29.08 dBm 3.20 dB 32.04 dBm 0.23 dB Peak 2.60 dB 10 % 0.16 dB 10 % 1 % .1 % .01 % 3.04 dB 3.16 dB 3.20 dB Date: 1.MAR.2016 19:22:52 Date: 1.MAR.2016 19:46:40 **Highest Channel Highest Channel** \* \* Trace 1 25.75 dBm 29.01 dBm Trace 1 31.81 dBm 32.04 dBm 0.24 dB Mean Peak Crest 3.26 dB 10 % 0.16 dB 0.20 dB 2.64 dB 3.08 dB 10 % 0.20 dB 0.24 dB Date: 1.MAR.2016 19:23:06 Date: 1.MAR.2016 19:47:11

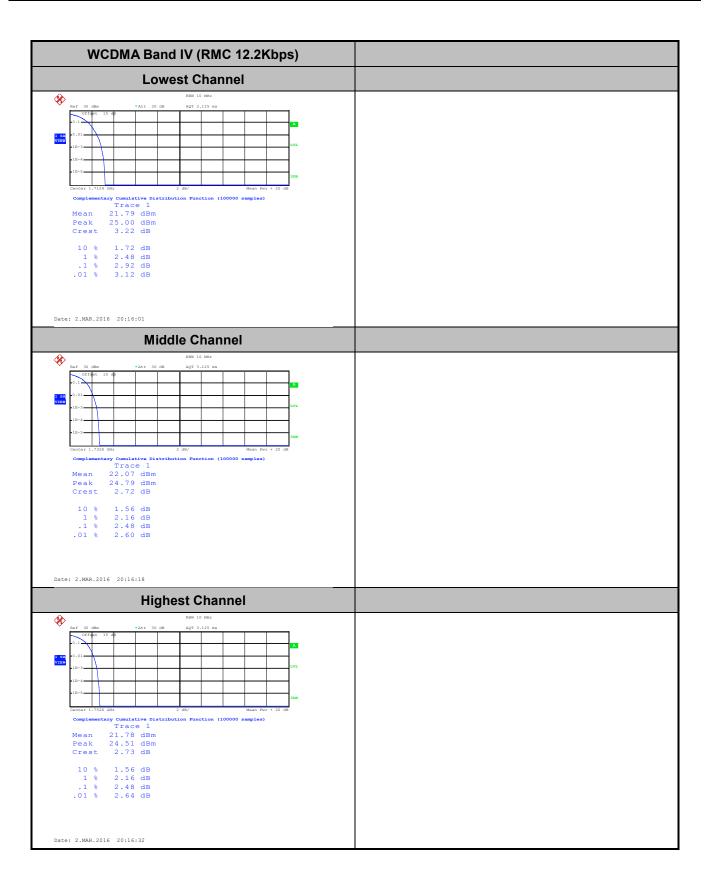
FCC RF Test Report



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## 26dB Bandwidth

Mode	GSM850				
Mod.	GSM	EDGE class 8			
Lowest CH	0.312	0.303			
Middle CH	0.310	0.288			
Highest CH	0.307	0.311			

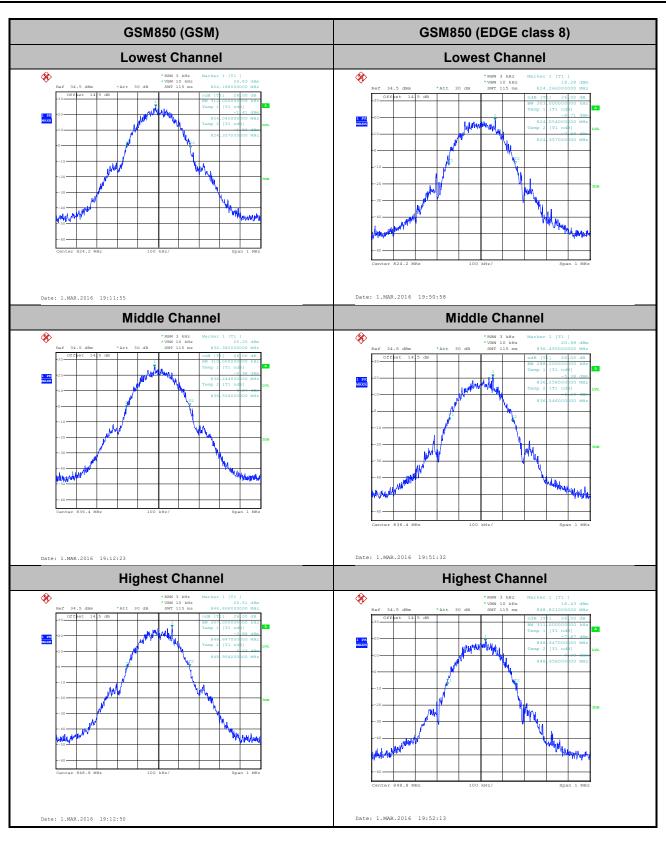
Mode	GSM1900				
Mod.	GSM	EDGE class 8			
Lowest CH	0.313	0.306			
Middle CH	0.315	0.300			
Highest CH	0.311	0.302			

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.68	4.69	4.68
Middle CH	4.69	4.68	4.72
Highest CH	4.70	4.70	4.71

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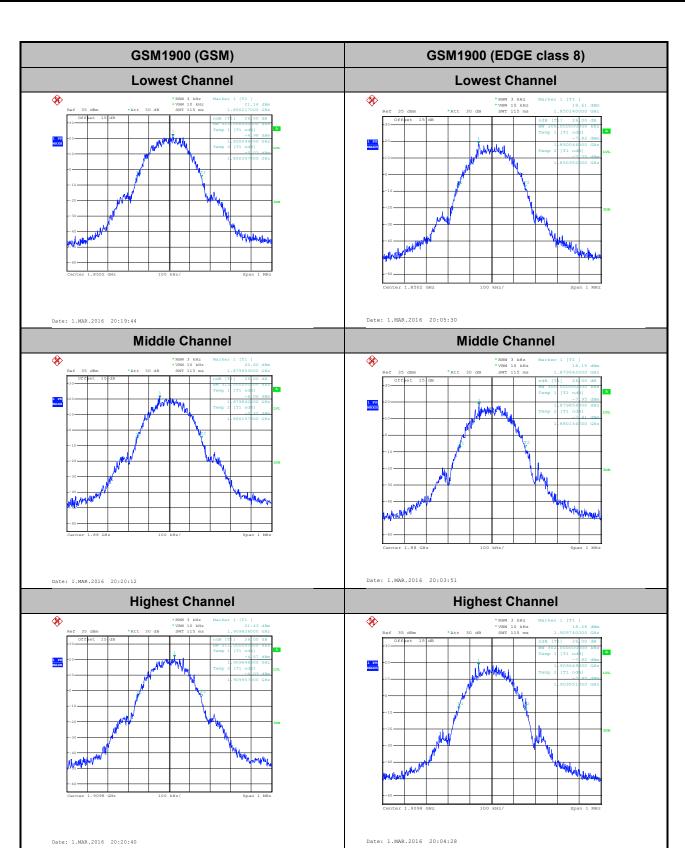
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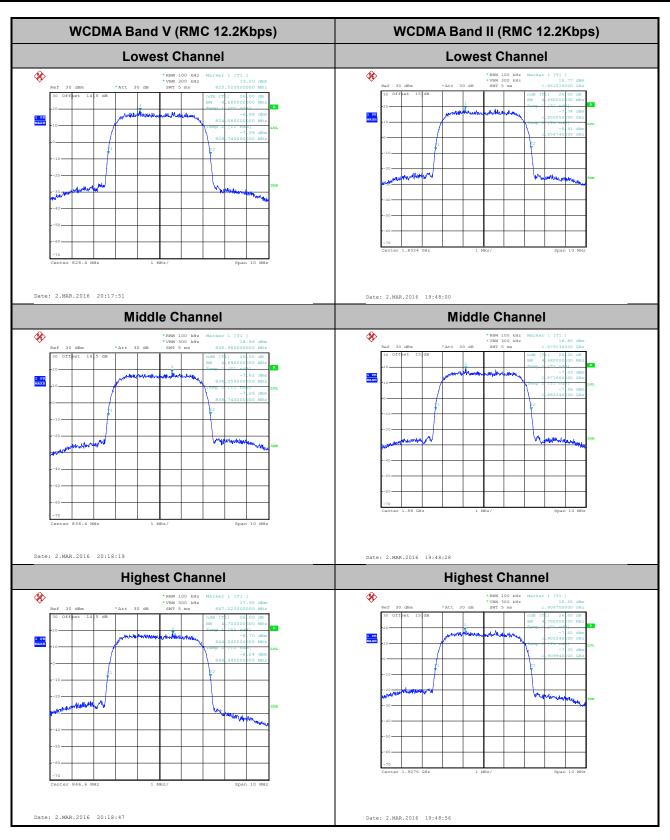
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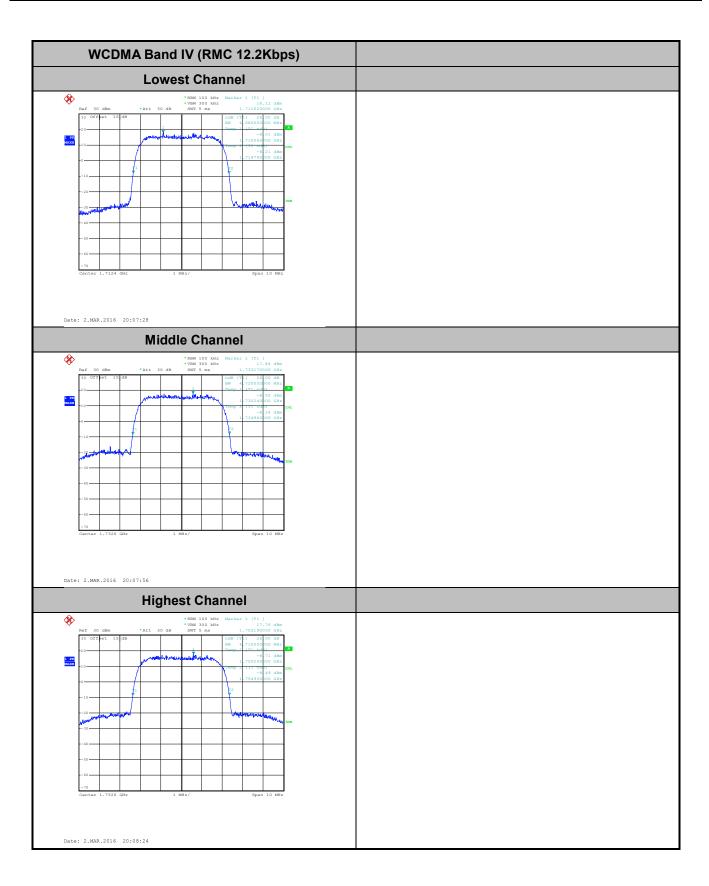
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# Occupied Bandwidth

Mode	GSM850				
Mod.	GSM	EDGE class 8			
Lowest CH	0.246	0.248			
Middle CH	0.245	0.240			
Highest CH	0.248	0.248			

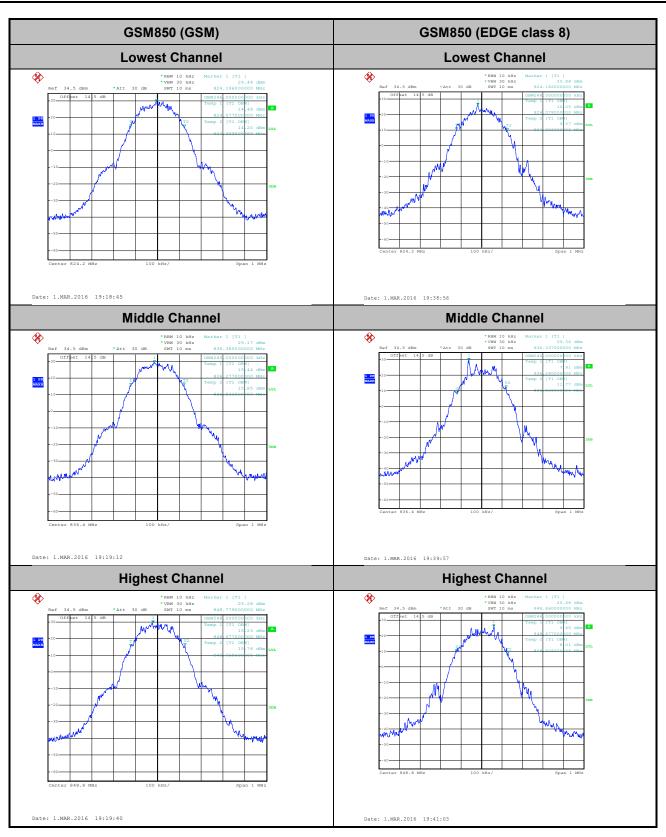
Mode	GSM1900				
Mod.	GSM EDGE class 8				
Lowest CH	0.245	0.247			
Middle CH	0.244	0.250			
Highest CH	0.246	0.247			

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.15	4.16	4.16
Middle CH	4.14	4.16	4.19
Highest CH	4.16	4.17	4.16

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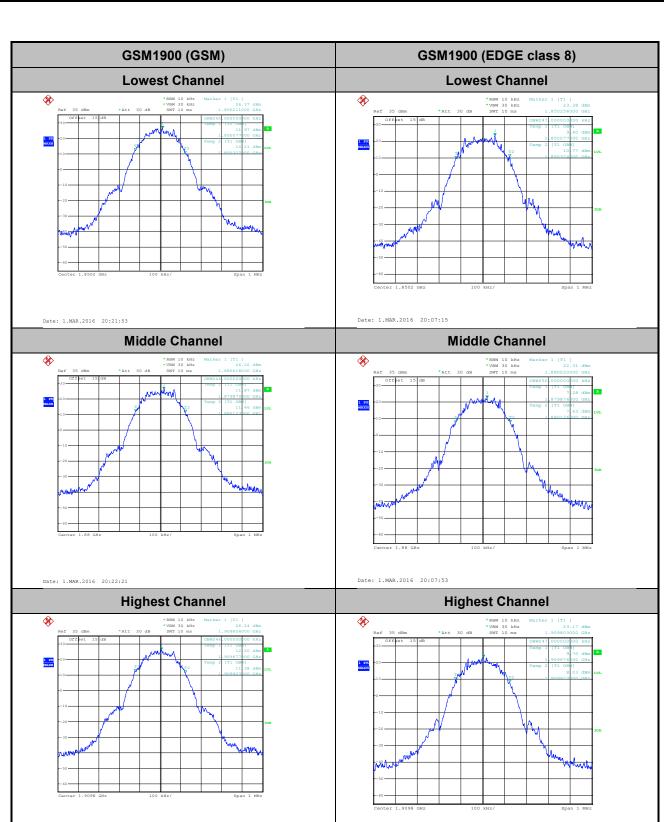
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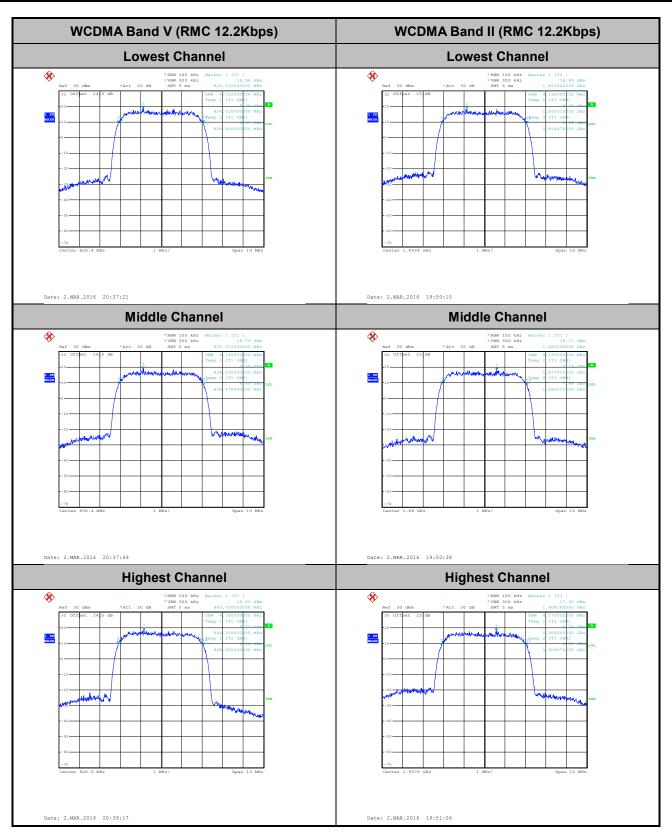


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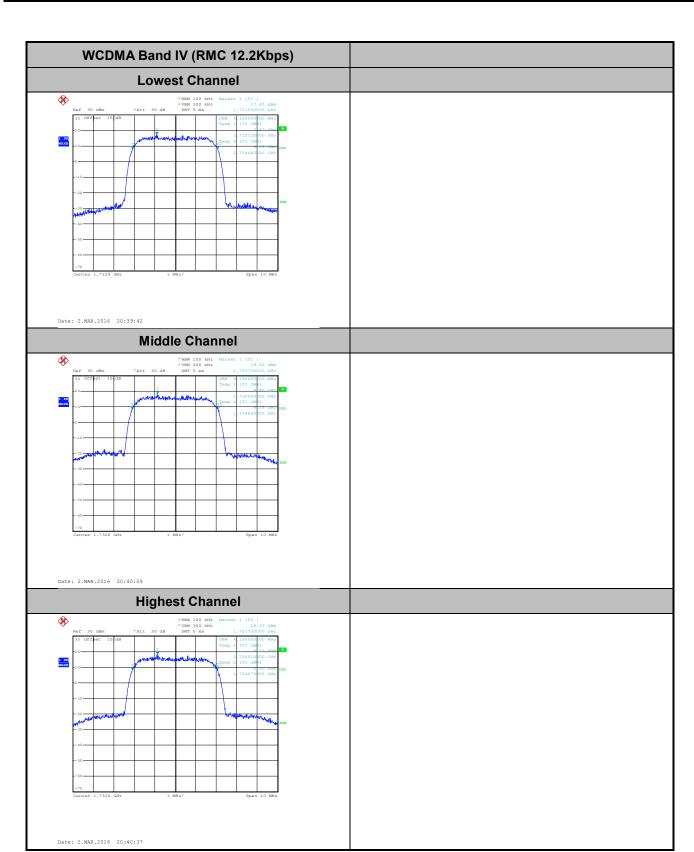
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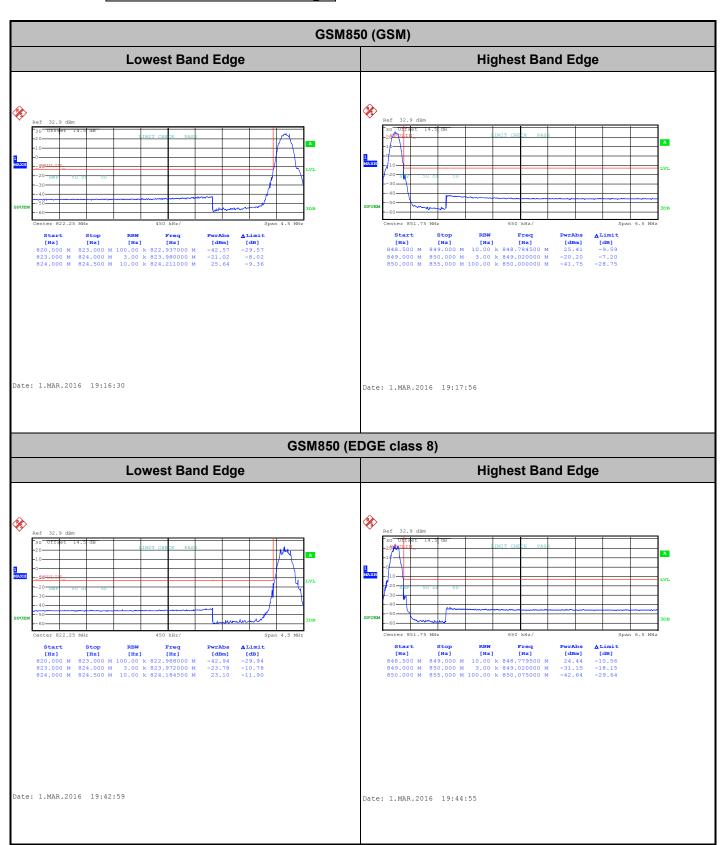
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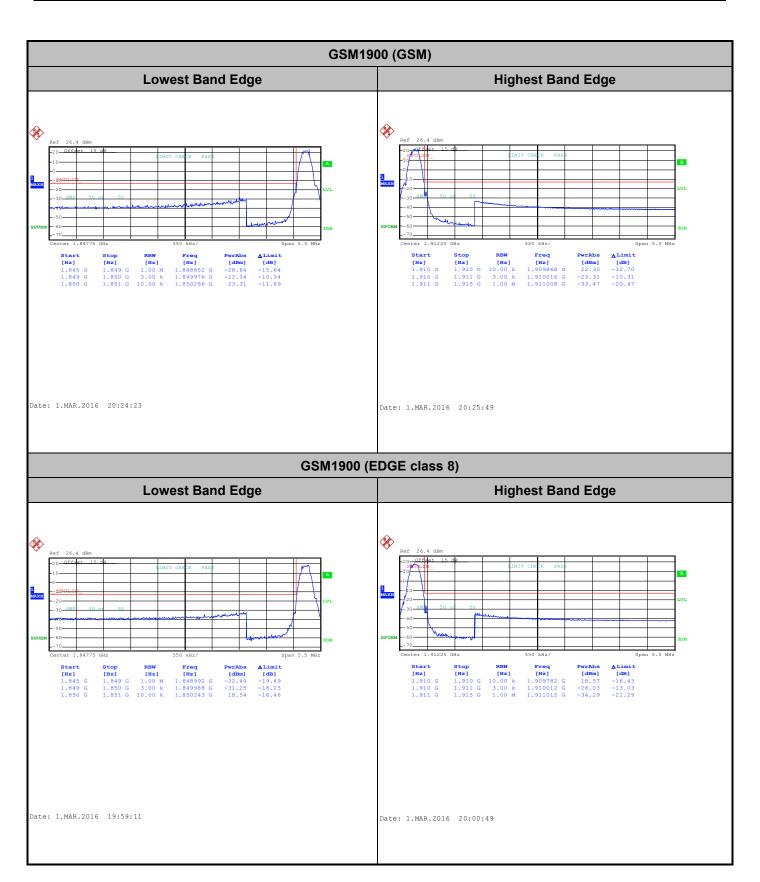
## **Conducted Band Edge**



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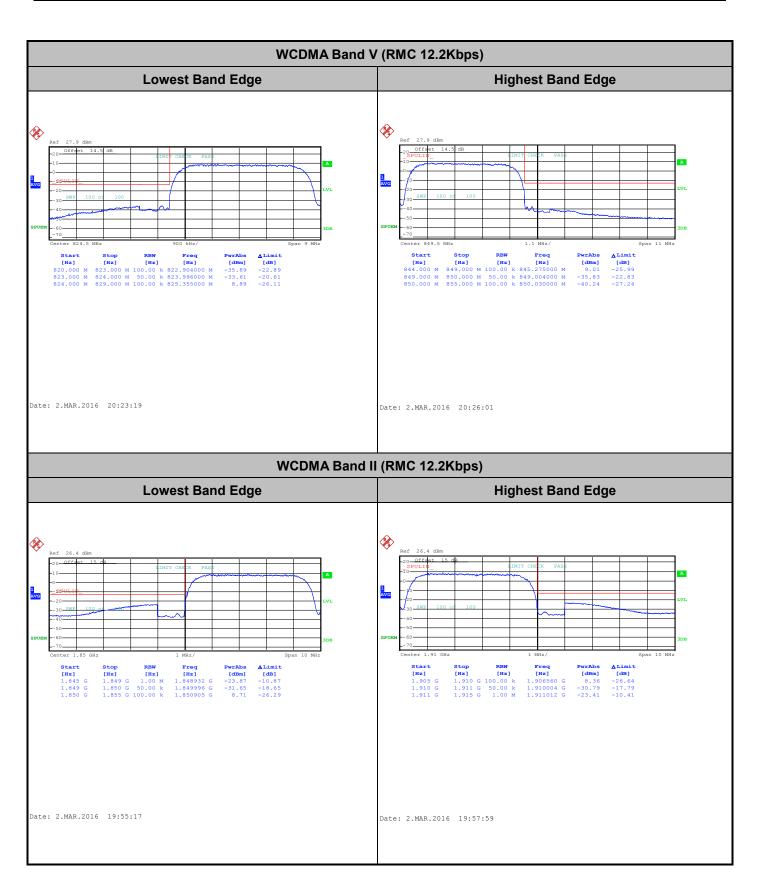
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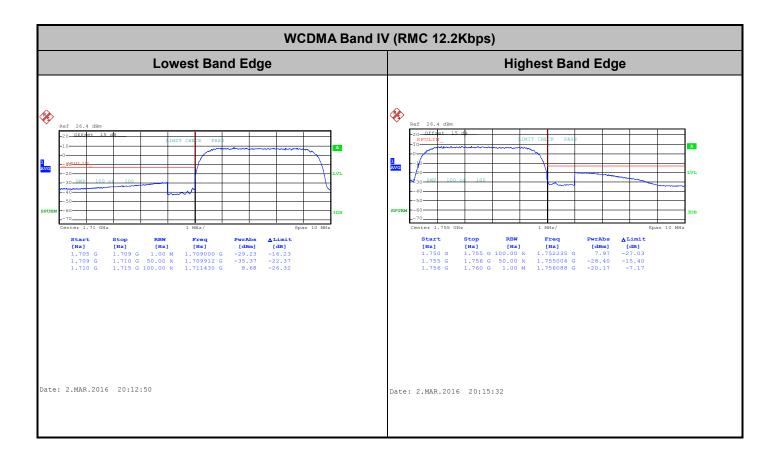
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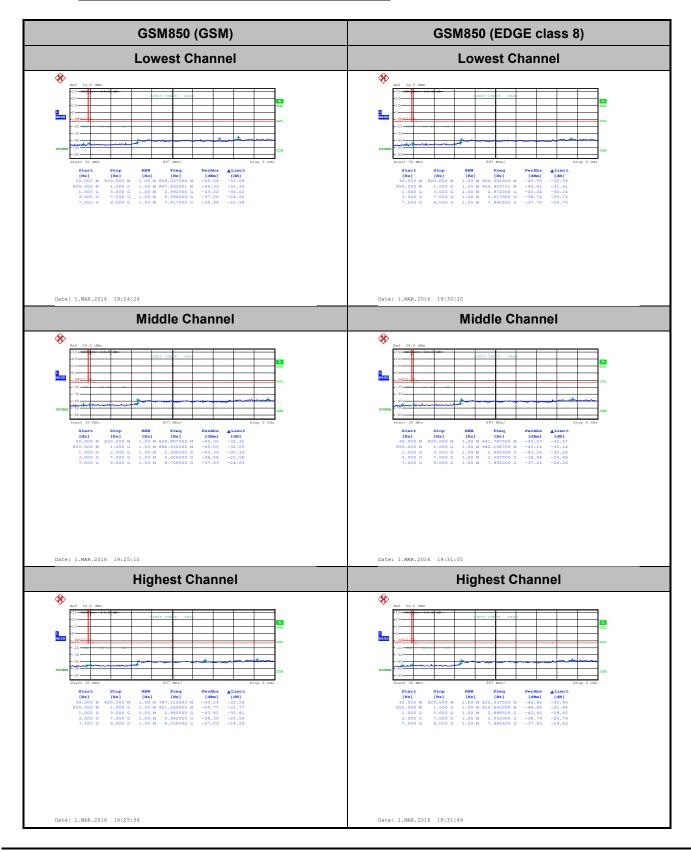
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### **Conducted Spurious Emission**

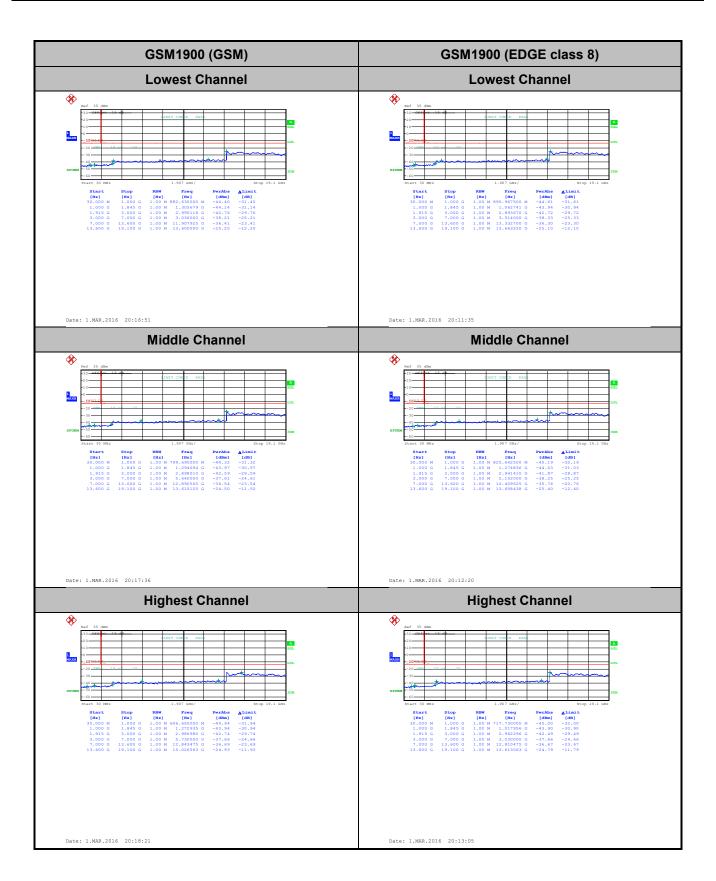


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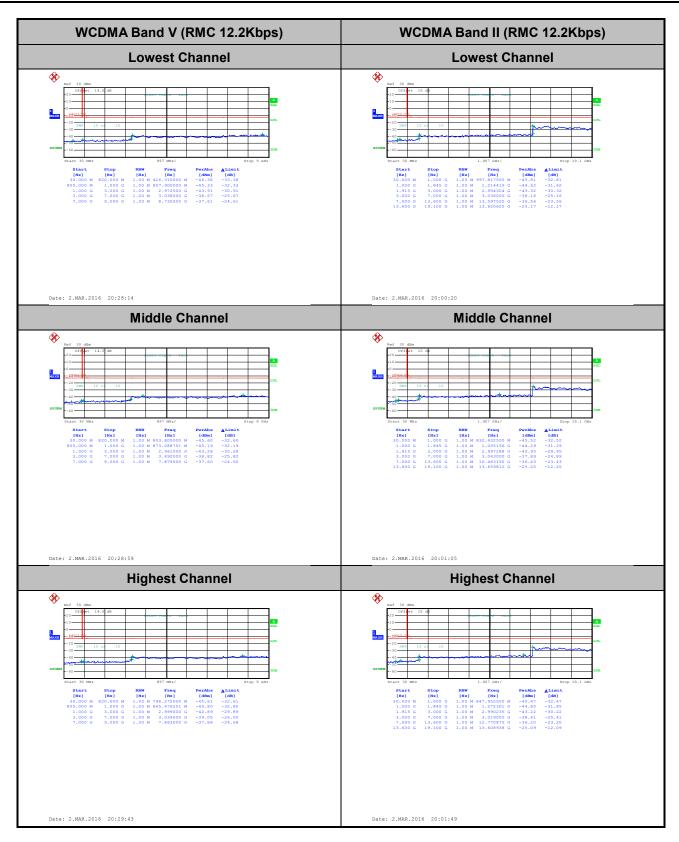
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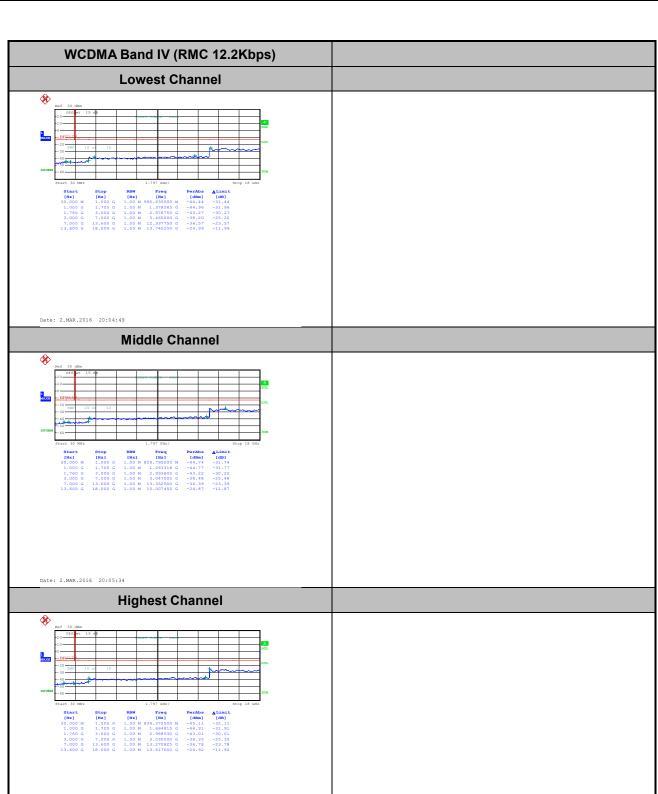
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## Frequency Stability

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviatio	n (ppm)	Result
50	Normal Voltage	0.0060	0.0072	
40	Normal Voltage	0.0024	0.0024	
30	Normal Voltage	0.0275	0.0407	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0024	0.0012	
0	Normal Voltage	0.0048	0.0430	
-10	Normal Voltage	0.0347	0.0036	PASS
-20	Normal Voltage	0.0371	0.0072	
-30	Normal Voltage	0.0096	0.0108	
20	Maximum Voltage	0.0012	0.0012	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0036	0.0012	

Note: Normal Voltage = 3.8V.; Battery End Point (BEP) = 3.5 V.; Maximum Voltage =4.2 V.

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Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviatio	n (ppm)	Result
50	Normal Voltage	0.0048	0.0043	
40	Normal Voltage	0.0340	0.0213	
30	Normal Voltage	0.0011	0.0005	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0011	0.0016	
0	Normal Voltage	0.0016	0.0202	
-10	Normal Voltage	0.0351	0.0027	PASS
-20	Normal Voltage	0.0037	0.0043	
-30	Normal Voltage	0.0053	0.0053	
20	Maximum Voltage	0.0032	0.0011	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0043	0.0021	

#### Note:

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

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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	0.0032	
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0048	
0	Normal Voltage	0.0037	
-10	Normal Voltage	0.0053	PASS
-20	Normal Voltage	0.0027	
-30	Normal Voltage	0.0059	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	

Note: Normal Voltage = 3.8V.; Battery End Point (BEP) = 3.5 V.; Maximum Voltage =4.2 V.

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Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0016	
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0027	
-10	Normal Voltage	0.0011	PASS
-20	Normal Voltage	0.0021	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	

#### Note:

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

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Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0085	
40	Normal Voltage	0.0069	
30	Normal Voltage	0.0080	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0069	PASS
-20	Normal Voltage	0.0064	
-30	Normal Voltage	0.0059	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	

#### Note:

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

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### **Appendix B. Test Results of Radiated Test**

### **ERP/EIRP**

Channel	Mode	Horiz	ontal	Vertical		
Chamilei	Mode	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)	
Lowest	CCMOTO	28.49	0.7056	15.23	0.0333	
Middle	GSM850	28.30	0.6764	14.99	0.0316	
Highest	- GSM	28.24	0.6671	15.35	0.0343	
Lowest	GSM850	22.18	0.1651	9.22	0.0084	
Middle		23.05	0.2017	9.97	0.0099	
Highest	EDGE class 8	23.89	0.2448	10.93	0.0124	
Lowest	MODMA Dand V	19.21	0.0833	5.85	0.0038	
Middle	WCDMA Band V	19.79	0.0953	6.67	0.0046	
Highest	RMC 12.2Kbps	19.76	0.0947	6.76	0.0047	
Limit	ERP < 7W	Re	sult	PA	SS	

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Channal	Mode	Horiz	ontal	Vertical		
Channel	Mode	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)	
Lowest	CCM4000	30.84	1.2134	31.25	1.3347	
Middle	GSM1900	30.37	1.0880	30.60	1.1471	
Highest	- GSM	30.14	1.0321	30.15	1.0343	
Lowest	GSM1900	28.19	0.6592	28.51	0.7098	
Middle		27.77	0.5978	27.92	0.6195	
Highest	EDGE Class o	26.87	0.4868	26.98	0.4987	
Lowest	MCDMA Bond II	24.35	0.2721	24.79	0.3014	
Middle	WCDMA Band II RMC 12.2Kbps	24.36	0.2732	24.54	0.2843	
Highest		23.91	0.2458	23.74	0.2368	
Limit	EIRP < 2W	Re	sult	PA	SS	

Channel	Mode	Horiz	ontal	Vertical		
	Wode	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)	
Lowest	MCDMA Dond IV	21.81	0.1519	21.89	0.1544	
Middle	WCDMA Band IV RMC 12.2Kbps	22.64	0.1835	22.92	0.1959	
Highest		22.42	0.1745	22.82	0.1915	
Limit	EIRP < 1W	Re	sult	PA	SS	

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## **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)
	1648.4	-54.08	-13	-41.08	-56.39	-52.51	4.92	5.50	Н
	2472.6	-55.53	-13	-42.53	-61.82	-53.07	6.11	5.80	Н
Lowest	3296.8	-56.33	-13	-43.33	-65.05	-54.95	7.33	8.10	Н
Lowest	1648.4	-57.83	-13	-44.83	-60.31	-56.26	4.92	5.50	V
	2472.6	-55.77	-13	-42.77	-61.35	-53.31	6.11	5.80	V
	3296.8	-57.85	-13	-44.85	-66.08	-56.47	7.33	8.10	V
	1672	-54.11	-13	-41.11	-56.42	-52.54	4.92	5.50	Н
	2510	-57.01	-13	-44.01	-63.30	-54.55	6.11	5.80	Н
Middle	3346	-52.99	-13	-39.99	-61.71	-51.61	7.33	8.10	Н
Middle	1672	-54.48	-13	-41.48	-57.09	-52.91	4.92	5.50	V
	2510	-59.84	-13	-46.84	-65.42	-57.38	6.11	5.80	V
	3346	-55.61	-13	-42.61	-63.84	-54.23	7.33	8.10	V
	1697.6	-54.65	-13	-41.65	-56.96	-53.08	4.92	5.50	Н
	2546.4	-56.73	-13	-43.73	-63.02	-54.27	6.11	5.80	Н
Highest	3395.2	-50.49	-13	-37.49	-59.21	-49.11	7.33	8.10	Н
	1697.6	-55.76	-13	-42.76	-58.24	-54.19	4.92	5.50	V
	2546.4	-59.58	-13	-46.58	-65.16	-57.12	6.11	5.80	V
	3395.2	-54.99	-13	-41.99	-63.22	-53.61	7.33	8.10	V

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

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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)		
	1648.4	-53.54	-13	-40.54	-56.15	-51.97	4.92	5.50	Н		
	2472.6	-59.34	-13	-46.34	-65.63	-56.88	6.11	5.80	Н		
Lowest	3296.8	-55.76	-13	-42.76	-64.48	-54.38	7.33	8.10	Н		
Lowest	1648.4	-57.03	-13	-44.03	-59.51	-55.46	4.92	5.50	V		
	2472.6	-59.27	-13	-46.27	-64.85	-56.81	6.11	5.80	V		
	3296.8	-55.99	-13	-42.99	-64.22	-54.61	7.33	8.10	V		
	1672	-58.54	-13	-45.54	-60.85	-56.97	4.92	5.50	Н		
	2510	-59.02	-13	-46.02	-65.31	-56.56	6.11	5.80	Н		
NAC-L-II-	3346	-53.64	-13	-40.64	-62.36	-52.26	7.33	8.10	Н		
Middle	1672	-59.02	-13	-46.02	-61.50	-57.45	4.92	5.50	V		
	2510	-59.81	-13	-46.81	-65.39	-57.35	6.11	5.80	V		
	3346	-55.70	-13	-42.70	-63.93	-54.32	7.33	8.10	V		
	1697.6	-56.62	-13	-43.62	-58.93	-55.05	4.92	5.50	Н		
	2546.4	-59.11	-13	-46.11	-65.40	-56.65	6.11	5.80	Н		
I limboot	3395.2	-52.41	-13	-39.41	-61.13	-51.03	7.33	8.10	Н		
Highest	1697.6	-60.02	-13	-47.02	-62.50	-58.45	4.92	5.50	V		
	2546.4	-60.04	-13	-47.04	-65.62	-57.58	6.11	5.80	V		
	3395.2	-53.34	-13	-40.34	-61.57	-51.96	7.33	8.10	V		

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	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)			
	3700.4	-47.89	-13	-34.89	-62.39	-48.26	7.73	8.10	Н			
	5550.6	-46.39	-13	-33.39	-64.40	-47.29	9.5	10.40	Н			
Lowest	7400.8	-45.46	-13	-32.46	-65.87	-46.08	11.08	11.70	Н			
Lowest	3700.4	-47.55	-13	-34.55	-62.64	-47.92	7.73	8.1	V			
	5550.6	-46.48	-13	-33.48	-64.75	-47.38	9.5	10.4	V			
	7400.8	-46.62	-13	-33.62	-67.12	-47.24	11.08	11.7	V			
	3760	-44.11	-13	-31.11	-58.61	-44.48	7.73	8.10	Н			
	5640	-42.30	-13	-29.30	-60.31	-43.20	9.5	10.40	Н			
NA: al all a	7520	-46.60	-13	-33.60	-67.01	-47.22	11.08	11.70	Н			
Middle	3760	-44.54	-13	-31.54	-59.63	-44.91	7.73	8.1	V			
	5640	-44.66	-13	-31.66	-62.93	-45.56	9.5	10.4	V			
	7520	-45.63	-13	-32.63	-66.13	-46.25	11.08	11.7	V			
	3819.6	-42.53	-13	-29.53	-57.03	-42.90	7.73	8.10	Н			
Highest	5729.4	-41.13	-13	-28.13	-59.14	-42.03	9.5	10.40	Н			
	7639.2	-46.60	-13	-33.60	-67.01	-47.22	11.08	11.70	Н			
	3819.6	-45.64	-13	-32.64	-60.73	-46.01	7.73	8.1	V			
	5729.4	-45.11	-13	-32.11	-63.38	-46.01	9.5	10.4	V			
	7639.2	-45.08	-13	-32.08	-65.58	-45.70	11.08	11.7	V			

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	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)			
	3700.4	-51.94	-13	-38.94	-66.44	-52.31	7.73	8.10	Н			
	5550.6	-45.99	-13	-32.99	-64.00	-46.89	9.5	10.40	Н			
Lowoot	7400.8	-46.92	-13	-33.92	-67.33	-47.54	11.08	11.70	Н			
Lowest	3700.4	-50.94	-13	-37.94	-66.03	-51.31	7.73	8.1	V			
	5550.6	-45.89	-13	-32.89	-64.16	-46.79	9.5	10.4	V			
	7400.8	-47.04	-13	-34.04	-67.54	-47.66	11.08	11.7	V			
	3760	-50.52	-13	-37.52	-65.02	-50.89	7.73	8.10	Н			
	5640	-46.12	-13	-33.12	-64.13	-47.02	9.5	10.40	Н			
NA: -L-II -	7520	-46.94	-13	-33.94	-67.35	-47.56	11.08	11.70	Н			
Middle	3760	-49.91	-13	-36.91	-65	-50.28	7.73	8.1	V			
	5640	-47.91	-13	-34.91	-66.18	-48.81	9.5	10.4	V			
	7520	-47.11	-13	-34.11	-67.61	-47.73	11.08	11.7	V			
	3819.6	-51.63	-13	-38.63	-66.13	-52.00	7.73	8.10	Н			
	5729.4	-44.63	-13	-31.63	-62.64	-45.53	9.5	10.40	Н			
I Park and	7639.2	-46.65	-13	-33.65	-67.06	-47.27	11.08	11.70	Н			
Highest	3819.6	-51.54	-13	-38.54	-66.63	-51.91	7.73	8.1	V			
	5729.4	-49.24	-13	-36.24	-67.51	-50.14	9.5	10.4	V			
	7639.2	-46.52	-13	-33.52	-67.02	-47.14	11.08	11.7	V			

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	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)			
	1652.8	-62.24	-13	-49.24	-64.55	-60.67	4.92	5.50	Н			
	2479.2	-58.96	-13	-45.96	-65.25	-56.50	6.11	5.80	Н			
Lowest	3305.6	-57.34	-13	-44.34	-66.06	-55.96	7.33	8.10	Н			
Lowest	1652.8	-62.12	-13	-49.12	-64.60	-60.55	4.92	5.50	V			
	2479.2	-59.99	-13	-46.99	-65.57	-57.53	6.11	5.80	V			
	3305.6	-57.67	-13	-44.67	-65.90	-56.29	7.33	8.10	V			
	1672	-61.00	-13	-48.00	-63.31	-59.43	4.92	5.50	Н			
	2510	-57.90	-13	-44.90	-64.19	-55.44	6.11	5.80	Н			
NA: -L-II-	3346	-57.48	-13	-44.48	-66.20	-56.10	7.33	8.10	Н			
Middle	1672	-61.67	-13	-48.67	-64.15	-60.10	4.92	5.50	V			
	2510	-59.11	-13	-46.11	-64.69	-56.65	6.11	5.80	V			
	3346	-57.16	-13	-44.16	-65.39	-55.78	7.33	8.10	V			
	1693.2	-60.97	-13	-47.97	-63.28	-59.40	4.92	5.50	Н			
	2539.8	-59.43	-13	-46.43	-65.72	-56.97	6.11	5.80	Н			
L Pada a c	3386.4	-57.05	-13	-44.05	-65.77	-55.67	7.33	8.10	Н			
Highest	1693.2	-62.28	-13	-49.28	-64.76	-60.71	4.92	5.50	V			
	2539.8	-59.49	-13	-46.49	-65.07	-57.03	6.11	5.80	V			
	3386.4	-57.60	-13	-44.60	-65.83	-56.22	7.33	8.10	V			

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	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)			
	3704.8	-52.10	-13	-39.10	-66.60	-52.47	7.73	8.10	Н			
	5557.2	-49.85	-13	-36.85	-67.86	-50.75	9.5	10.40	Н			
Lowest	7409.6	-46.41	-13	-33.41	-66.82	-47.03	11.08	11.70	Н			
Lowest	3704.8	-50.81	-13	-37.81	-65.9	-51.18	7.73	8.1	V			
	5557.2	-48.59	-13	-35.59	-66.86	-49.49	9.5	10.4	V			
	7409.6	-47.43	-13	-34.43	-67.93	-48.05	11.08	11.7	V			
	3760	-51.38	-13	-38.38	-65.88	-51.75	7.73	8.10	Н			
	5640	-49.48	-13	-36.48	-67.49	-50.38	9.5	10.40	Н			
NA: al all a	7520	-47.52	-13	-34.52	-67.93	-48.14	11.08	11.70	Н			
Middle	3760	-50.88	-13	-37.88	-65.97	-51.25	7.73	8.1	V			
	5640	-49.43	-13	-36.43	-67.7	-50.33	9.5	10.4	V			
	7520	-46.88	-13	-33.88	-67.38	-47.50	11.08	11.7	V			
	3815.2	-50.45	-13	-37.45	-64.95	-50.82	7.73	8.10	Н			
	5722.8	-49.40	-13	-36.40	-67.41	-50.30	9.5	10.40	Н			
Highest	7630.4	-46.27	-13	-33.27	-66.68	-46.89	11.08	11.70	Н			
	3815.2	-51.77	-13	-38.77	-66.86	-52.14	7.73	8.1	V			
	5722.8	-48.90	-13	-35.90	-67.17	-49.80	9.5	10.4	V			
	7630.4	-46.37	-13	-33.37	-66.87	-46.99	11.08	11.7	V			

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	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)			
	3424.8	-50.69	-13	-37.69	-65.44	-55.96	7.33	12.60	Н			
	5137.2	-48.99	-13	-35.99	-66.99	-52.54	9.15	12.70	Н			
Lowoot	6849.6	-47.87	-13	-34.87	-66.68	-48.93	10.64	11.70	Н			
Lowest	3424.8	-55.02	-13	-42.02	-66.6	-60.29	7.33	12.60	V			
	5137.2	-53.97	-13	-40.97	-67.72	-57.52	9.15	12.70	V			
	6849.6	-49.41	-13	-36.41	-67.5	-50.47	10.64	11.70	V			
	3465.2	-50.93	-13	-37.93	-65.68	-56.20	7.33	12.60	Н			
	5197.8	-49.25	-13	-36.25	-67.25	-52.80	9.15	12.70	Н			
NA: al all a	6930.4	-48.38	-13	-35.38	-67.19	-49.44	10.64	11.70	Н			
Middle	3465.2	-55.20	-13	-42.20	-66.78	-60.47	7.33	12.60	V			
	5197.8	-53.72	-13	-40.72	-67.47	-57.27	9.15	12.70	V			
	6930.4	-47.08	-13	-34.08	-65.17	-48.14	10.64	11.70	V			
	3505.2	-51.79	-13	-38.79	-66.54	-57.06	7.33	12.60	Н			
	5257.8	-48.24	-13	-35.24	-66.24	-51.79	9.15	12.70	Н			
Highest	7010.4	-48.14	-13	-35.14	-66.95	-49.20	10.64	11.70	Н			
	3505.2	-54.66	-13	-41.66	-66.24	-59.93	7.33	12.60	V			
	5257.8	-53.78	-13	-40.78	-67.53	-57.33	9.15	12.70	V			
	7010.4	-49.10	-13	-36.10	-67.19	-50.16	10.64	11.70	V			

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