

Shenzhen Huatongwei International Inspection Co., Ltd.

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FCC REPORT

Report Reference No.....: TRE1708006601 R/C.....: 50053

FCC ID.....: YPVITALCOMGLAM

Applicant's name.....: ITALCOM GROUP

Manufacturer...... UTCOM TECHNOLOGY CO.,LIMITED

Town, Baoan District, Shenzhen, China

Test item description: Smart phone

Trade Mark NYX

Model/Type reference...... GLAM

Listed Model(s) -

Standard FCC Part 22: PUBLIC MOBILE SERVICES

FCC Part 24:PERSONAL COMMUNICATIONS SERVICES

Date of receipt of test sample...... Aug.10, 2017

Date of testing...... Aug.11, 2017- Aug.20, 2017

Date of issue...... Aug.21, 2017

Result...... Pass

Compiled by

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Testing Laboratory Name: Shenzhen Huatongwei International Inspection Co., Ltd.

Gongming, Shenzhen, China

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1. Test standards and Report version

1.1. Applicable Standards

The tests were performed according to following standards:

FCC Part 22: PRIVATE LAND MOBILE RADIO SERVICES.

FCC Part 24: PUBLIC MOBILE SERVICES

<u>TIA/EIA 603 D June 2010:</u>Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

FCC Part 2: FREQUENCY ALLOCA-TIONS AND RADIO TREATY MAT-TERS; GENERAL RULES AND REGULATIONS

<u>971168 D01 Power Meas License Digital Systems v02r02:</u>provides a methodology for fully characterizing the fundamental power of wideband (> 1 MHz) digitally modulated RF signals acceptable to the FCC for demonstrating compliance for licensed transmitters.

1.2. Report version

Version No.	Date of issue	Description
00	Aug.21, 2017	Original

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2. Test Description

Test Item	Section in CFR 47	Result
	Part 2.1046	
RF Output Power	Part 22.913(a)	Pass
	Part 24.232(c)	
	Part 2.1049	
99% & -26 dB Occupied Bandwidth	Part 22.917(b)	Pass
COutput Power % & -26 dB Occupied Bandwidth Inducted Spurious Emissions Ind Edge RP and EIRP Idiated Spurious Emissions Requency stability vs. temperature	Part 24.238(b)	
	Part 2.1051	
Conducted Spurious Emissions	Part 22.917	Pass
	Part 24.238	
	Part 2.1051	
Band Edge	Part 22.917	Pass
	Part 24.238	
EDD and FIDD	Part 22.913(a)	Door
Coutput Power % & -26 dB Occupied Bandwidth and Edge RP and EIRP adiated Spurious Emissions equency stability vs. temperature equency stability vs. voltage	Part 24.232(b)	Pass
	Part 2.1053	
Radiated Spurious Emissions	Part 22.917	Pass
	Part 24.238	
	Part 2.1055(a)(1)(b)	
Frequency stability vs. temperature	Part 22.255	Pass
	Part 24.235	
	Part 2.1055(d)(1)(2)	
Frequency stability vs. voltage	Part 22.255	Pass
	Part 24.235	
Peak-Average Ratio	Part 24.232	Pass

Note: The measurement uncertainty is not included in the test result.

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3. **SUMMARY**

3.1. Client Information

Applicant:	ITALCOM GROUP
Address:	1728 Coral Way,Coral Gables,Miami,Florida,United States
Manufacturer:	UTCOM TECHNOLOGY CO.,LIMITED
Address:	4C,Block A,Central Avenue Building,BaoYuan Road, Xixiang Town,Baoan District,Shenzhen,China

3.2. Product Description

Name of EUT:	Smart phone	
Trade Mark:	NYX	
Model No.:		
	GLAM	
Listed Model(s):	-	
IMEI:	359583080000872	
Power supply:	DC 3.8V From internal battery	
Adapter information:	Input:100-240Va.c., 50-60Hz, 0.15A	
	Output: 5Vd.c.,1A	
2G:		
Support Network:	GSM, GPRS, EGPRS	
Support Band:	GSM850, PCS1900	
Modulation:	GSM/GPRS/EGPRS: GMSK	
Transmit Frequency:	GSM850: 824.20MHz-848.80MHz	
	PCS1900: 1850.20MHz-1909.80MHz	
Receive Frequency:	GSM850: 869.20MHz-893.80MHz	
	PCS1900: 1930.20MHz-1989.80MHz	
GPRS Class:	12	
EGPRS Class:	12	
Antenna type:	Integral Antenna	
Antenna gain:	GSM850:1.2dBi	
	PCS1900:1.2dBi	
Hardware version:	NYX_GLAM_001	
Software version:	GLAM_AMXNYX_V001R	
3G:		
Operation Band: FDD Band II and FDD Band V		
Power Class:	Power Class 3	
Modilation Type:	QPSK/16QAM/64QAM/HSUPA/HSDPA	
DC-HSUPA Release Version:	Not Supported	
Antenna type:	Integral Antenna	
Antenna gain:	Band II: 1dBi, Band V:1dBi	

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3.3. Operation state

> Test frequency list

GSN	1850	PCS	CS1900		
Channel	Frequency (MHz)	Channel	Frequency (MHz)		
128	824.20	512	1850.20		
190	836.60	661	1880.00		
251	848.80	810	1909.80		

FDD E	Band II	FDD B	Band V
Channel	Frequency (MHz)	Channel	Frequency (MHz)
9262	1852.4	4132	826.40
9400	1880.0	4183	836.60
9538	1907.6	4233	846.60

Test mode

For RF test items

The EUT has been tested under typical operating condition. The Applicant providessoftware to control the EUT for staying in continous transmitting and receiving mode for testing.

3.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- supplied by the manufacturer
- supplied by the lab

	Length (m):	/
	Shield:	/
	Detachable :	/
	Manufacturer:	/
	Model No. :	/

3.5. Modifications

No modifications were implemented to meet testing criteria.

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4. TEST ENVIRONMENT

4.1. Address of the test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd.

Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China Phone: 86-755-26748019 Fax: 86-755-26748089

4.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No. 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 762235

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 762235

IC-Registration No.: 5377B-1

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377B-1

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

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4.3. Equipments Used during the Test

Output Power(Conducted) &Occupied Bandwidth&Emission Bandwidth&Band Edge Compliance&Conducted Spurious Emission					
No.	Equipment	Manufacturer	Model No.	SerialNo.	Last Cal.
1	UNIVERSAL RADIO COMMUNICATION	Rohde&Schwarz	CMU200	112012	2016/11/13
2	Spectrum Analyzer	Rohde&Schwarz	FSU26	201141	2016/11/13
3	Splitter	Mini-Circuit	ZAPD-4	400059	2016/11/13

Freque	Frequency Stability					
No.	Equipment	Manufacturer	Model No.	SerialNo.	Last Cal.	
1	UNIVERSAL RADIO COMMUNICATION	Rohde&Schwarz	CMU200	112012	2016/11/13	
2	Spectrum Analyzer	Rohde&Schwarz	FSU26	201141	2016/11/13	
3	Climate Chamber	ESPEC	EL-10KA	05107008	2016/11/13	
4	Splitter	Mini-Circuit	ZAPD-4	400059	2016/11/13	

Output	Power (Radiated) & Radiate	d Spurious Emission			
No.	Equipment	Manufacturer	Model No.	SerialNo.	Last Cal.
1	UNIVERSAL RADIO COMMUNICATION	Rohde&Schwarz	CMU200	112012	2016/11/13
2	Spectrum Analyzer	Rohde&Schwarz	FSU26	201141	2016/11/13
3	HORNANTENNA	ShwarzBeck	9120D	1012	2016/11/13
4	HORNANTENNA	ShwarzBeck	9120D	1011	2016/11/13
5	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	538	2016/11/13
6	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	539	2016/11/13
7	TURNTABLE	MATURO	TT2.0		N/A
8	ANTENNA MAST	MATURO	TAM-4.0-P		N/A
9	EMI Test Software	Audix	E3	N/A	N/A
10	EMI Test Receiver	Rohde&Schwarz	ESIB 26	100009	2016/11/13
11	RF Test Panel	Rohde&Schwarz	TS / RSP	335015/0017	2016/11/13
12	High pass filter	Compliance Direction systems	BSU-6	34202	2016/11/13
13	Splitter	Mini-Circuit	ZAPD-4	400059	2016/11/13
14	Horn Antenna	SCHWARZBECK	BBHA9170	25841	2016/11/13
15	Horn Antenna	SCHWARZBECK	BBHA9170	25842	2016/11/13
16	Preamplifier	ShwarzBeck	BBV 9718	BBV 9718	2016/11/13
17	Broadband Preamplifier	ShwarzBeck	BBV743	9743-0079	2016/11/13
18	Signal Generator	Rohde&Schwarz	SMF100A	101932	2016/11/13
19	Amplifer	Compliance Direction systems	PAP1-4060	120	2016/11/13
20	TURNTABLE	ETS	2088	2149	2016/11/13
21	ANTENNA MAST	ETS	2075	2346	2016/11/13
22	HORNANTENNA	Rohde&Schwarz	HF906	100068	2016/11/13
23	HORNANTENNA	Rohde&Schwarz	HF906	100039	2016/11/13

The calibration interval was one year.

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4.4. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature/Tnor:	15~35°C
lative Humidity	30~60 %
Air Pressure	950-1050 hPa

4.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01"Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1"and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test Items	MeasurementUncertainty	Notes
Frequency stability	25 Hz	(1)
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emission 9KHz-12.75 GHz	1.60 dB	(1)
Conducted Emission 9KHz-30MHz	3.39 dB	(1)
Radiated Emission 30~1000MHz	4.24 dB	(1)
Radiated Emissio 1~18GHz	5.16 dB	(1)
Radiated Emissio 18-40GHz	5.54 dB	(1)
Occupied Bandwidth		(1)
Emission Mask		(1)
Modulation Characteristic		(1)
Transmitter Frequency Behavior		(1)

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

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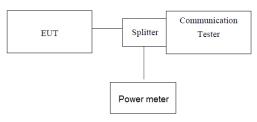
5. TEST CONDITIONS AND RESULTS

5.1. Conducted Output Power

LIMIT

N/A

TEST CONFIGURATION



Note: Measurement setup for testing on Antenna connector

TEST PROCEDURE

- 1. The transmitter output port was connected to base station.
- 2. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement.
- 3. Set EUT at maximum power through base station.
- 4. Select lowest, middle, and highest channels for each band and different modulation.
- 5. Measure the maximum burst average power.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

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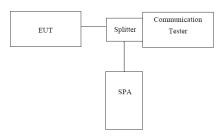
EUT Mode	Channel	Frequency (MHz)	Power (dBm)
	128	824.20	33.11
GSM 850 (GMSK)	190	836.60	33.08
(GMOR)	251	848.80	32.98
GPRS850 (GMSK,1Slot)	128	824.20	33.12
	190	836.60	33.09
	251	848.80	32.99
EGPRS850 (GMSK,1Slot)	128	824.20	33.12
	190	836.60	33.09
(GIVION, TOIOL)	251	848.80	33.00
	512	1850.20	28.07
PCS1900 (GMSK)	661	1880.00	28.05
(Giviort)	810	1909.80	28.14
	512	1850.20	28.09
GPRS1900 (GMSK,1Slot)	661	1880.00	28.07
(GWOR, FOICE)	810	1909.80	28.16
	512	1850.20	28.07
EGPRS1900 (GMSK,1Slot)	661	1880.00	28.13
(GIVIOR, IOIOI)	810	1909.80	28.17
	9262	1852.40	23.77
WCDMA Band II	9400	1880.00	23.73
	9538	1907.60	23.32
	4132	826.40	23.31
WCDMA Band V	4183	836.60	23.40
	4233	846.60	23.17

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5.2. 99% & -26 dB Occupied Bandwidth

LIMIT N/A

TEST CONFIGURATION



Note: Measurement setup for testing on Antenna connector

TEST PROCEDURE

- 1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer
- 2. RBWwas set to about 1% of emission BW, VBW= 3 times RBW.
- 3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

TEST MODE:

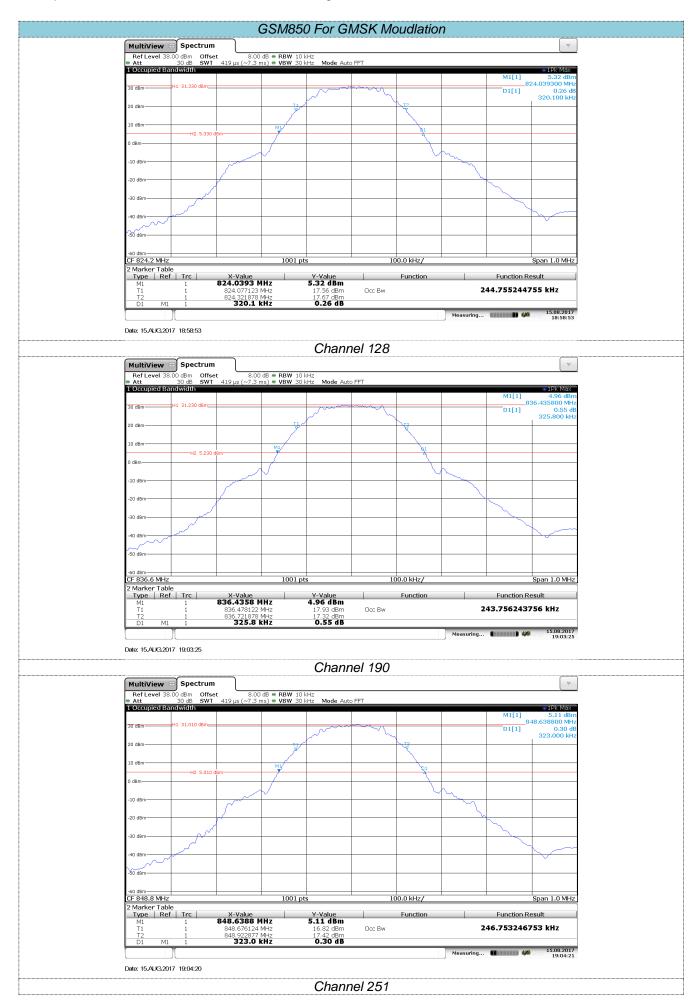
Please refer to the clause 3.3

TEST RESULTS

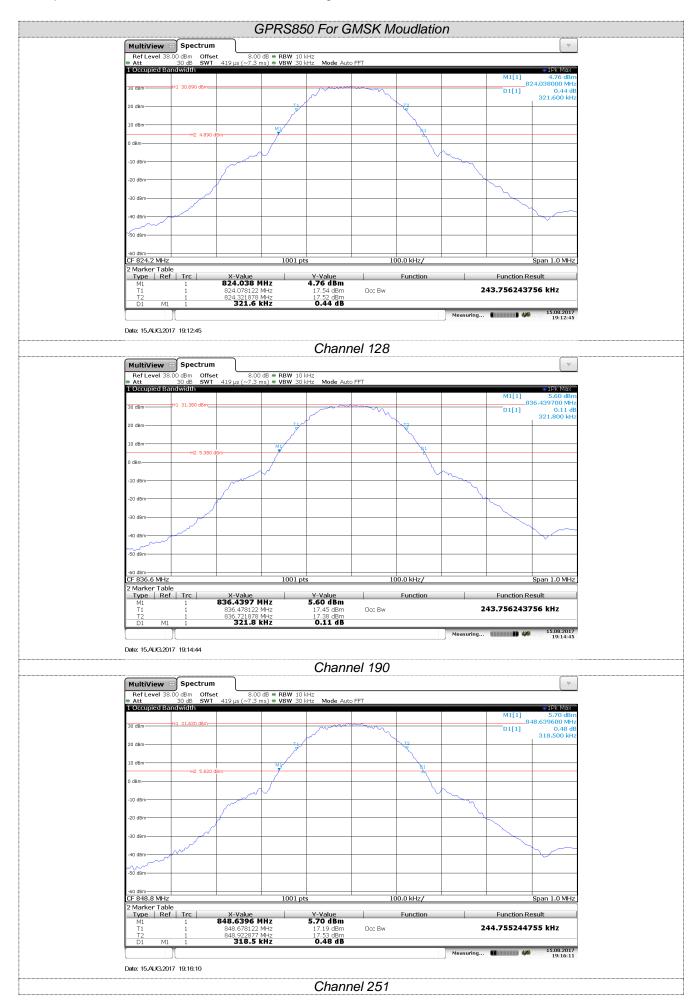
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EUT Mode	Channel	Frequency (MHz)	99% Occupy bandwidth (KHz)	-26dB bandwidth (KHz)
	128	824.20	244.75	320.10
GSM 850 (GMSK)	190	836.60	243.75	325.80
(OMOR)	251	848.80	246.75	323.00
	128	824.20	243.75	321.60
GPRS850 (GMSK,1Slot)	190	836.60	243.75	321.80
	251	848.80	244.75	318.50
5000000	128	824.20	246.75	322.50
EGPRS850	190	836.60	245.75	323.00
(GMSK,1Slot)	251	848.80	244.75	325.60
	512	1850.20	242.75	324.30
PCS1900 (GMSK)	661	1880.00	243.75	322.10
	810	1909.80	245.75	316.90
	512	1850.20	245.75	317.60
GPRS1900 (GMSK,1Slot)	661	1880.00	244.75	325.10
(Giviort, Folot)	810	1909.80	244.75	318.10
	512	1850.20	245.75	319.70
EGPRS1900 (GMSK,1Slot)	661	1880.00	244.75	322.60
(GIVIOIX, FOIOI)	810	1909.80	245.75	322.00
	9262	1852.40	4165.83	4713.00
WCDMA Band II	9400	1880.00	4155.84	4696.00
	9538	1907.60	4155.84	4712.00
	4132	826.40	4145.85	4676.00
WCDMA Band V	4183	836.60	4135.86	4669.00
	4233	846.60	4125.87	4666.00

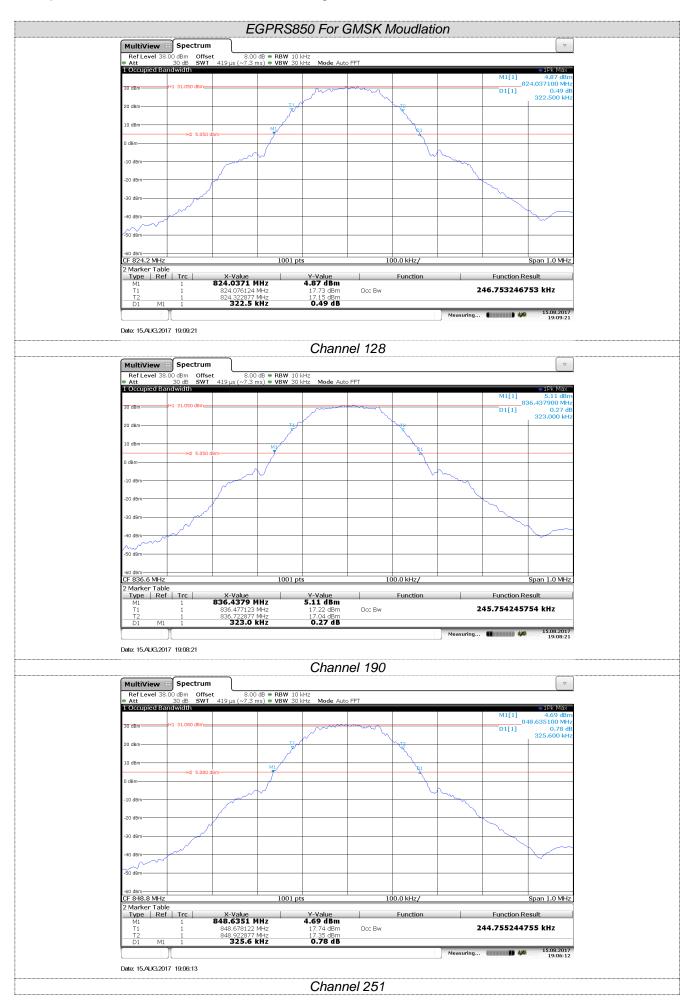
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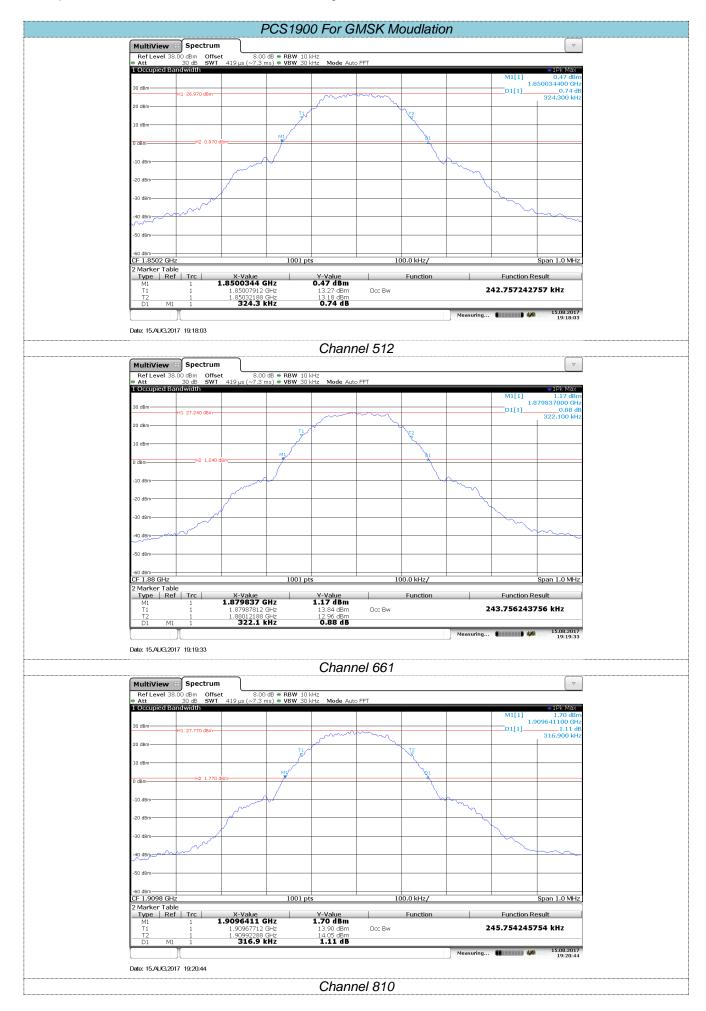
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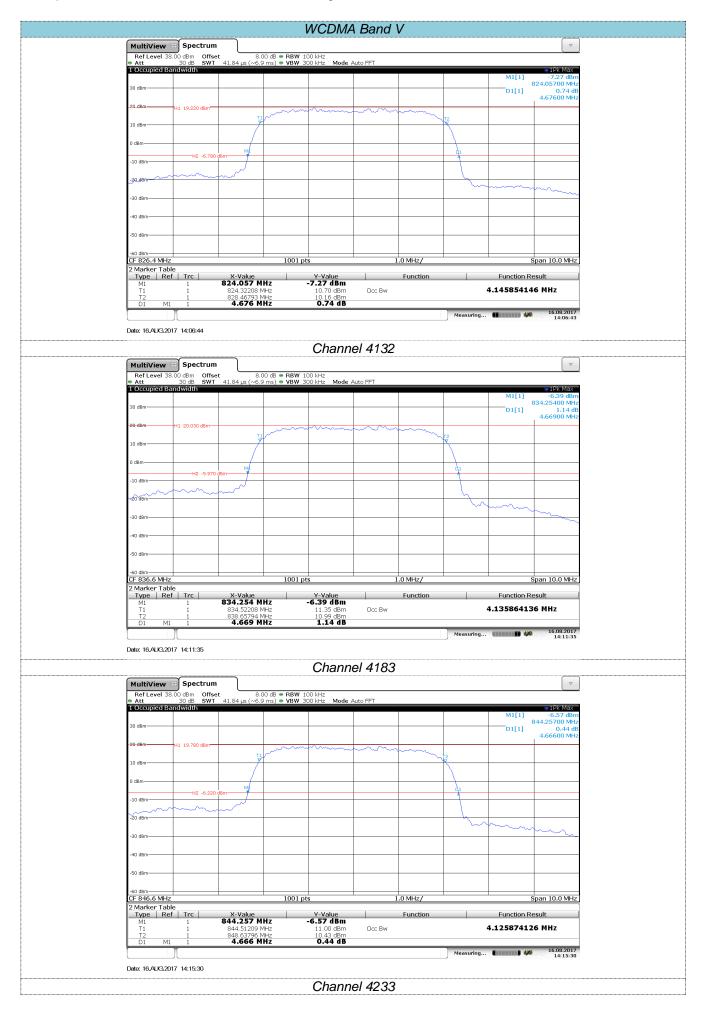
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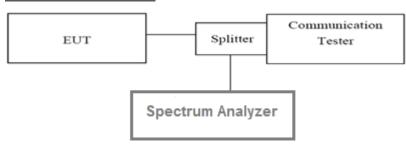
5.3. Conducted Spurious Emissions

LIMIT

Part 24.238 and Part 22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.
- The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficientscans were taken to show the out of band Emissions if any up to 10th harmonic.
- 3. For the out of band: Set the RBW= 1MHz, VBW = 3MHz, Start=30MHz, Stop= 10th harmonic.

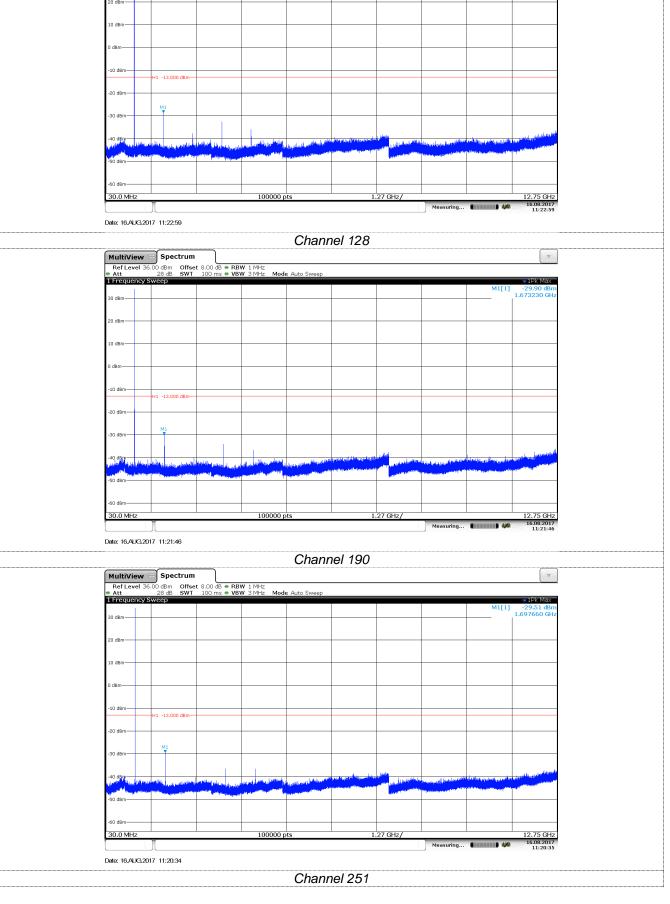
TEST MODE:

Please refer to the clause 3.3

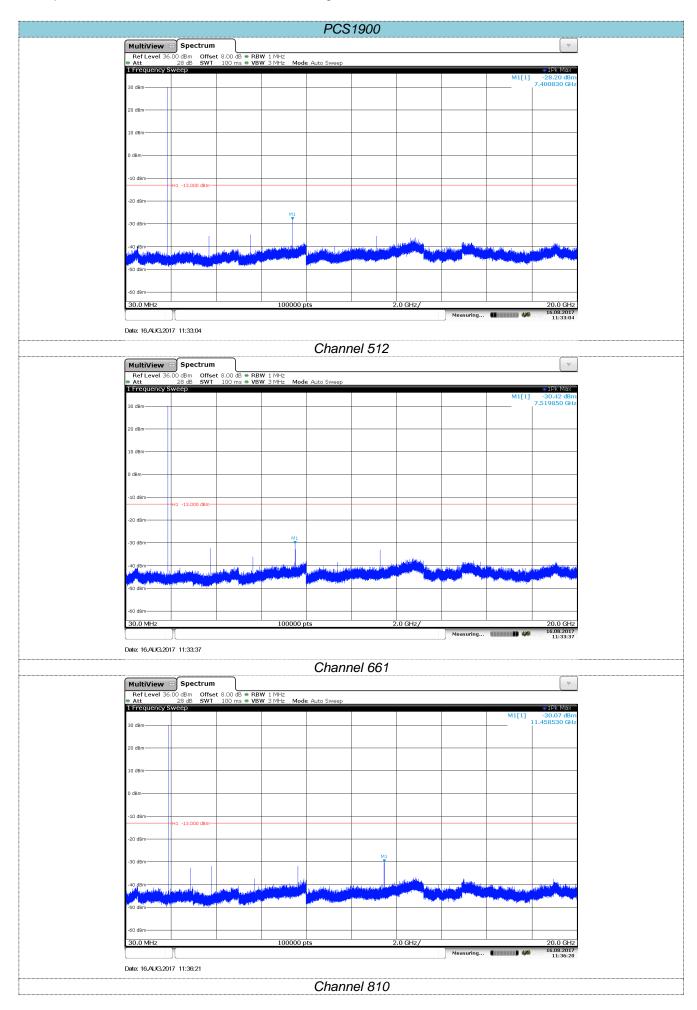
TEST RESULTS

Note:Worst case at GSM850/PCS1900

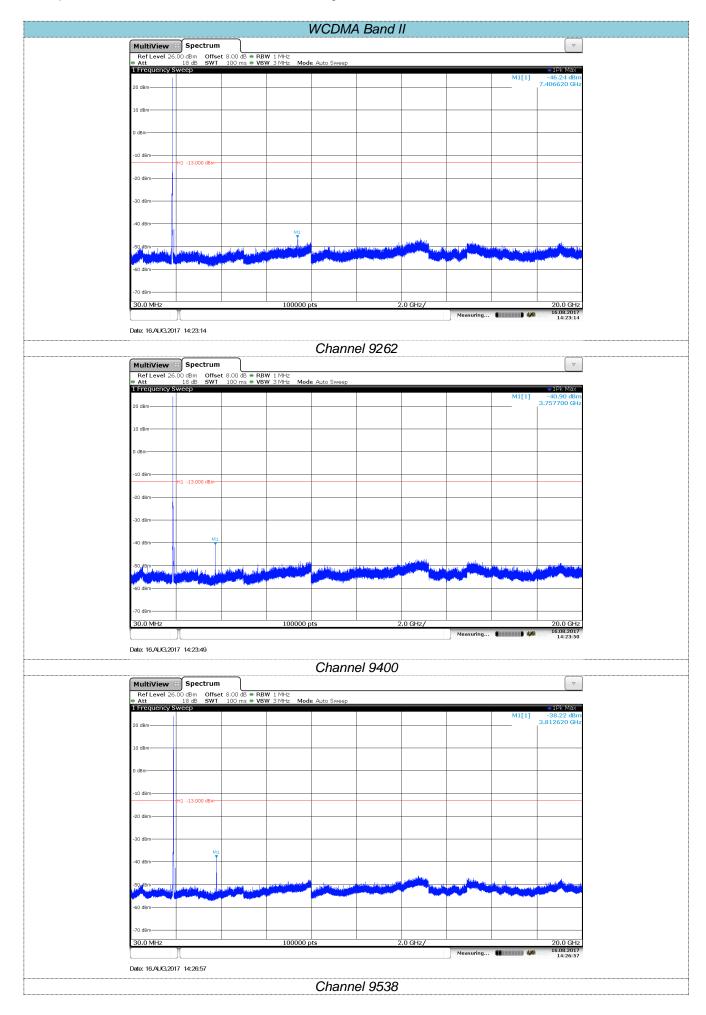
Report No.: TRE1708006601 Page: 23 of 57 Issued: 2017-08-21 GSM850 Date: 16.AUG:2017 11:22:59 Channel 128 100000 pt: Channel 190



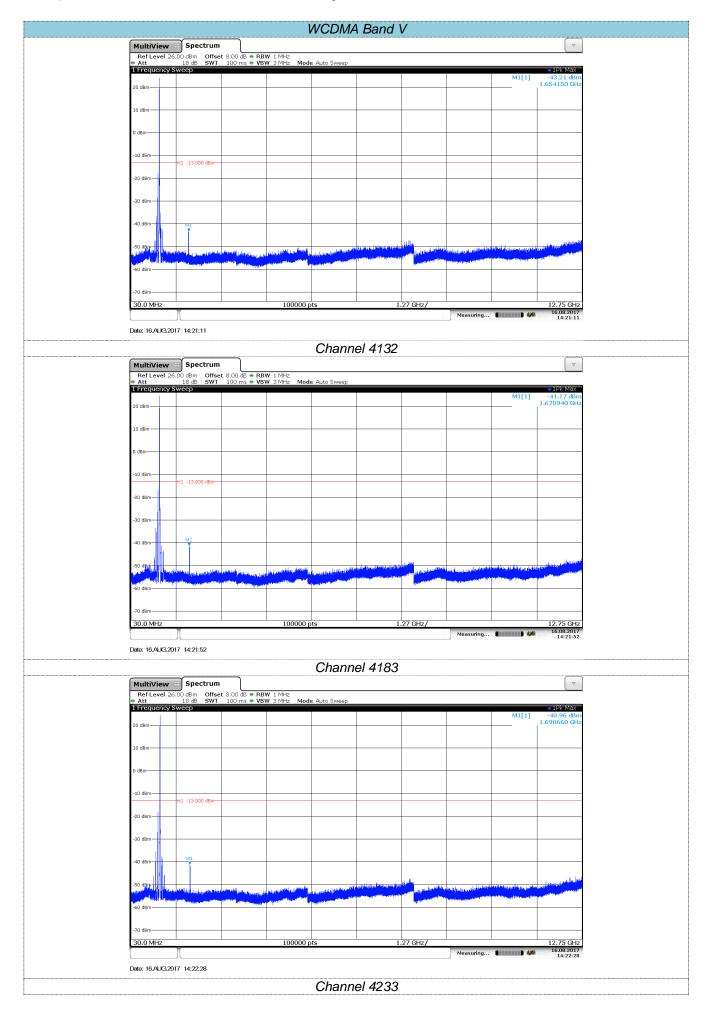
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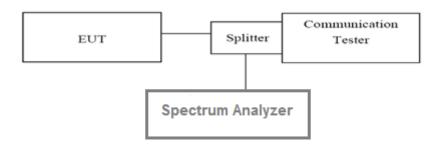
5.4. Band Edge

LIMIT

Part 24.238 and Part 22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The RF output of the transceiver was connected to a spectrum analyzer through appropriateattenuation.
- 2. For the bandedge: 2G:Set the RBW=3KHz, VBW = 10KHz, Sweep time= Auto

3G: Set the RBW=100KHz, VBW = 300KHz, Sweep time= Auto

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

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GSM850						
Channel Frequency Measurement Results Limit					Verdict	
Number	(MHz)	Frequency(MHz)	Values(dBm)	(dBm)	verdict	
128	824.2	824	-14.56	-13.00	Pass	
251	848.8	849	-14.19	-13.00	Pass	

GPRS850						
Channel Frequency Measurement Results Limit					Verdict	
Number	(MHz)	Frequency(MHz)	Values(dBm)	(dBm)	verdict	
128	824.2	824	-14.77	-13.00	Pass	
251	848.8	849	-14.22	-13.00	Pass	

EGPRS850						
Channel Frequency Measurement Results Limit Vardiet					Verdict	
Number	(MHz)	Frequency(MHz)	Values(dBm)	(dBm)	verdict	
128	824.2	824	-15.49	-13.00	Pass	
251	848.8	849	-15.88	-13.00	Pass	

PCS1900					
Channel Frequency Measurement Results				Limit	Verdict
Number	(MHz)	Frequency(MHz) Values(dBm)		(dBm)	verdict
512	1850.2	1850	-16.47	-13.00	Pass
810	1909.8	1910	-14.65	-13.00	Pass

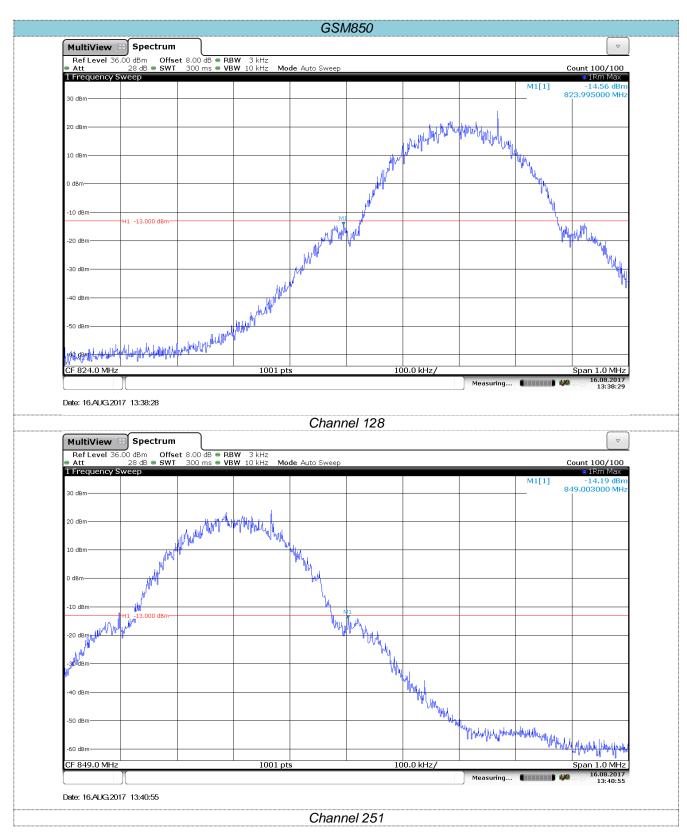
GPRS1900					
Channel	Channel Frequency Measurement Results				Verdict
Number	(MHz)	Frequency(MHz)	Values(dBm)	(dBm)	verdict
512	1850.2	1850	-14.98	-13.00	Pass
810	1909.8	1910	-16.04	-13.00	Pass

EGPRS1900						
Channel	Channel Frequency Measurement Results				Verdict	
Number	(MHz)	Frequency(MHz) Values(dBm) (dBm)			verdict	
512	1850.2	1850	-16.15	-13.00	Pass	
810	1909.8	1910	-15.23	-13.00	Pass	

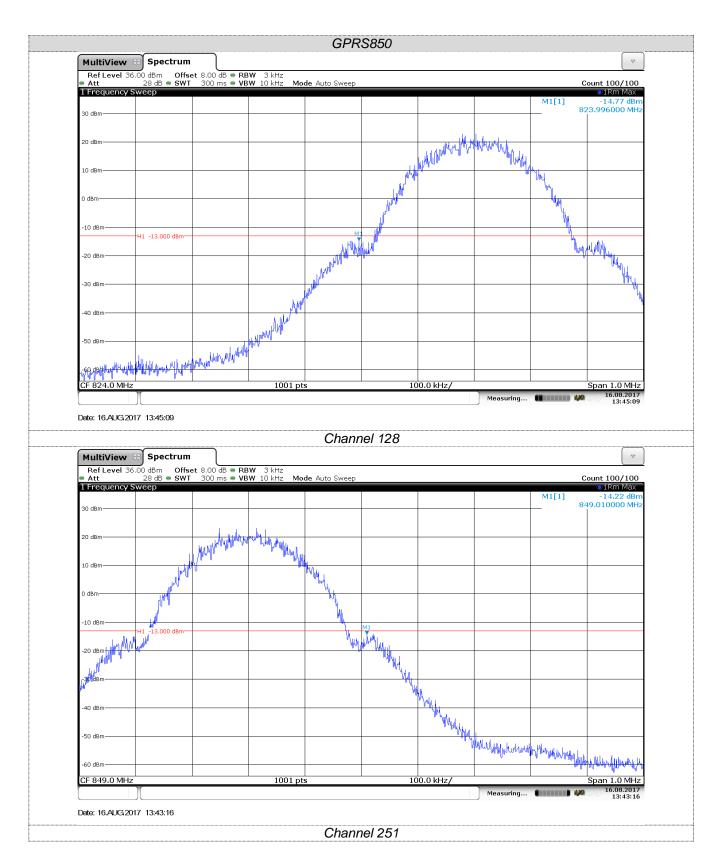
WCDMA Band II						
Channel	Channel Frequency Measurement Results Limit Verdict					
Number	(MHz)	Frequency(MHz)	Values(dBm)	(dBm)	verdict	
9262	1852.4	1850	-19.44	-13.00	Pass	
9538	1907.6	1910	-19.73	-13.00	Pass	

WCDMA Band V						
Channel Frequency Measurement Results Limit					Verdict	
Number	(MHz)	Frequency(MHz)	Values(dBm)	(dBm)	verdict	
4132	826.4	824	-19.81	-13.00	Pass	
4233	846.6	849	-22.78	-13.00	Pass	

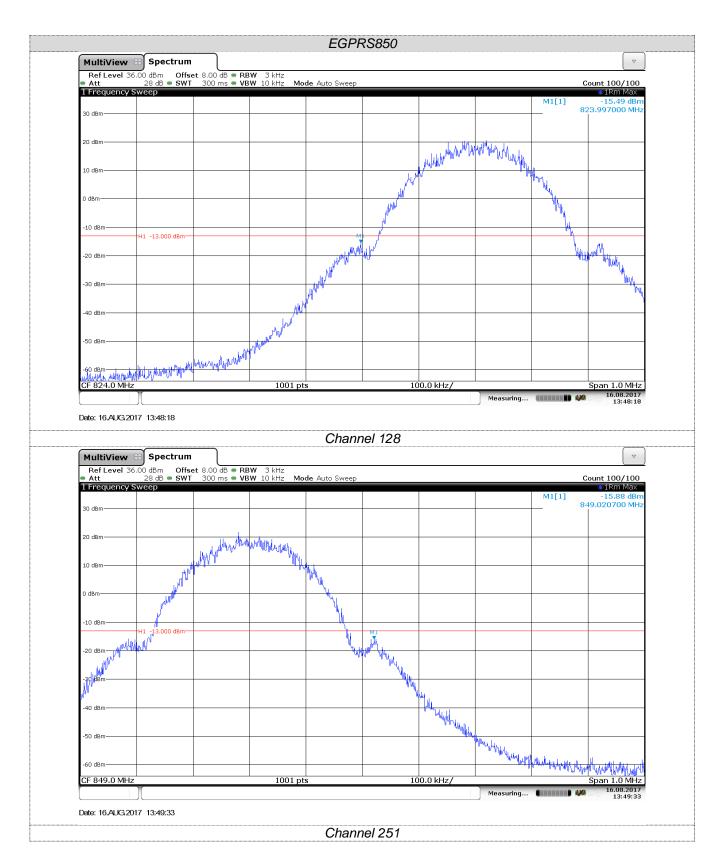
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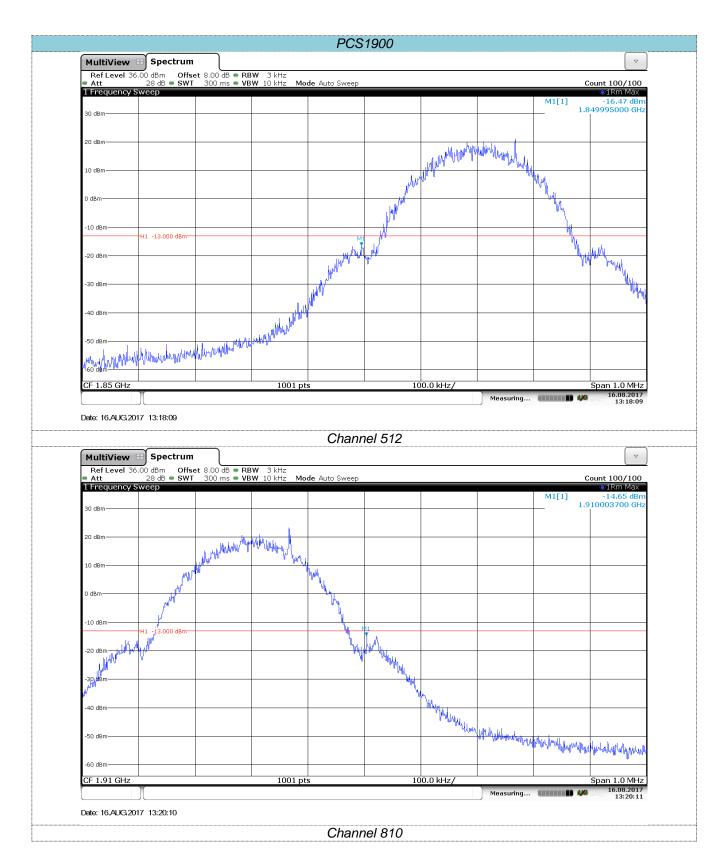
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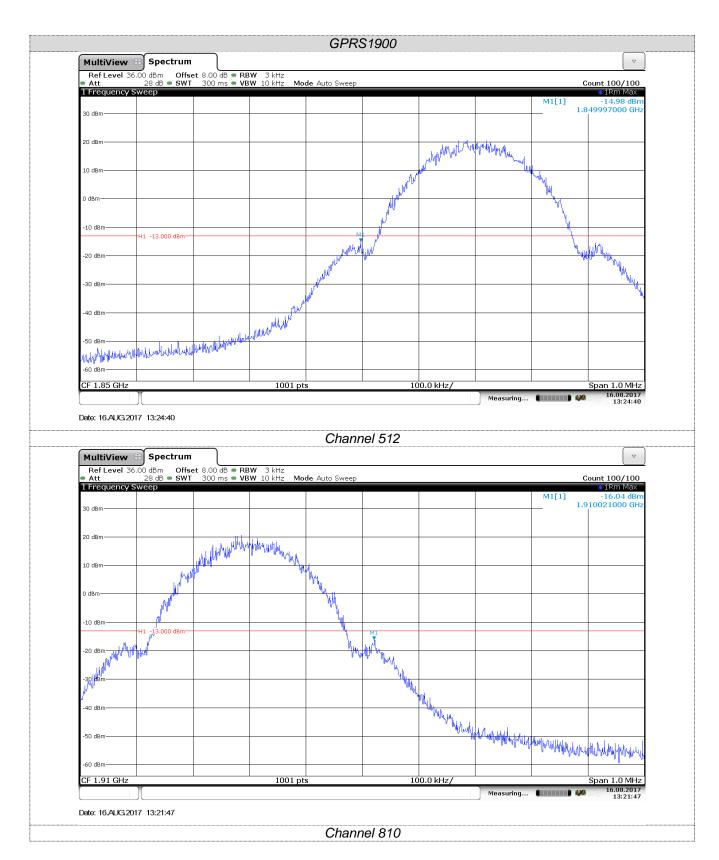
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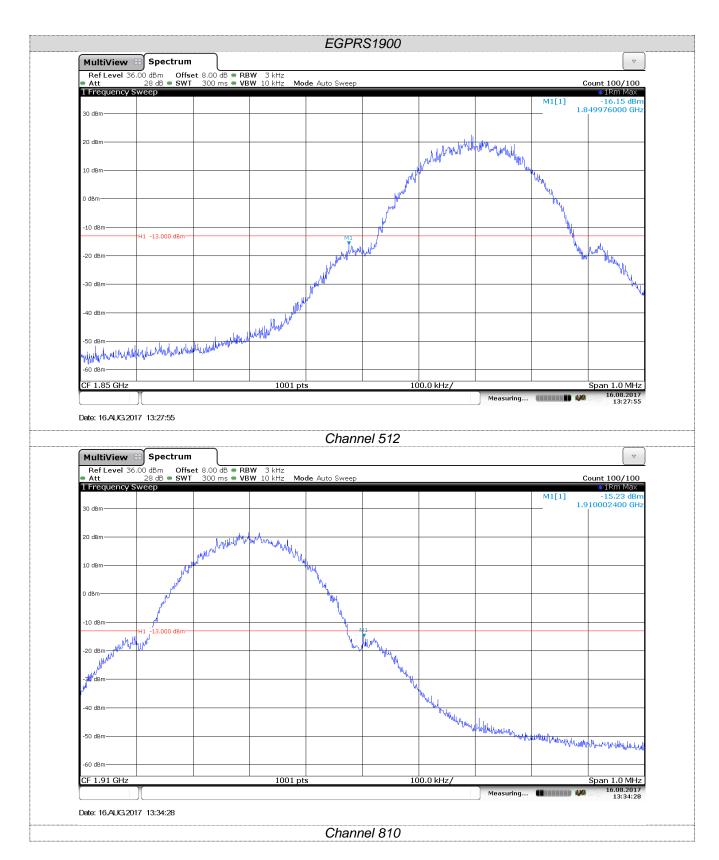
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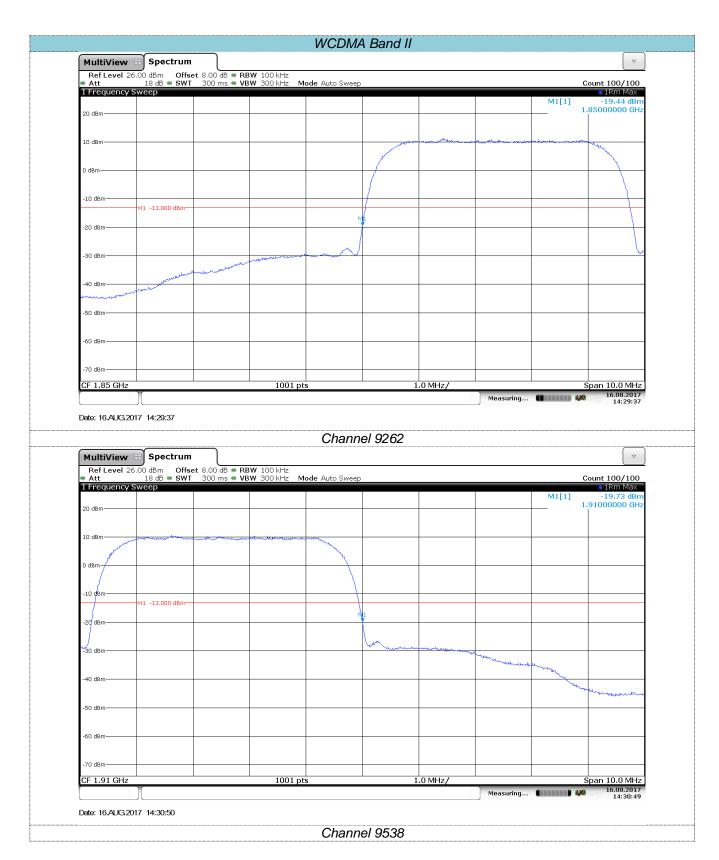
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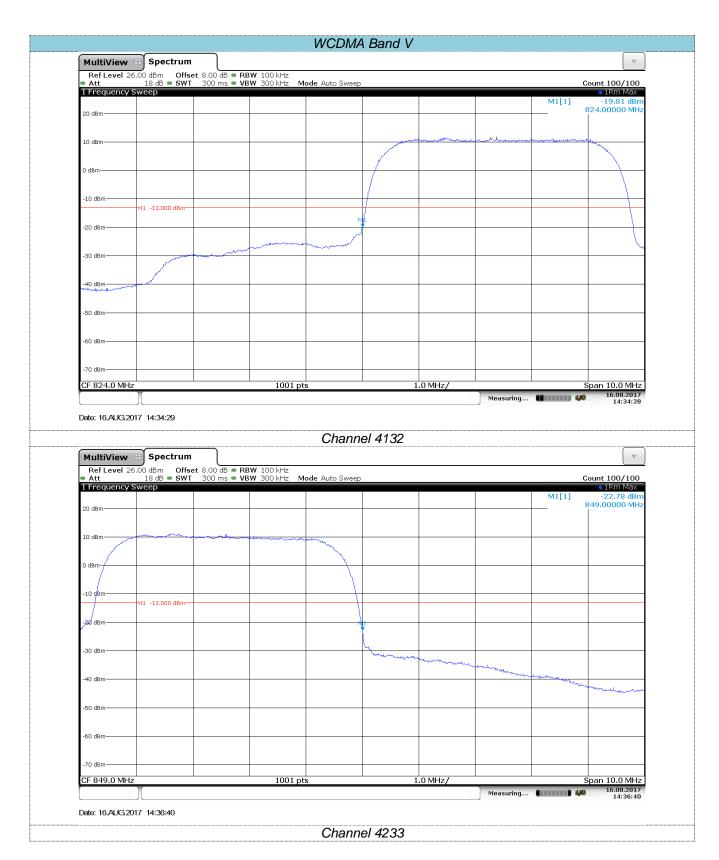
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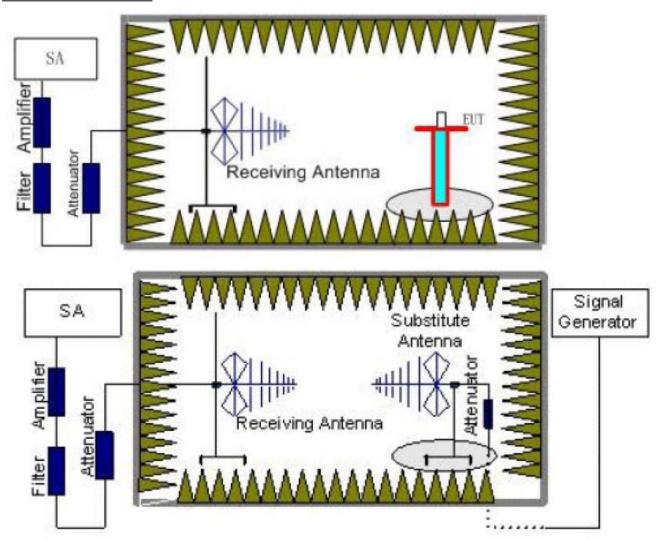
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5.5. ERP and EIRP

LIMIT

GSM850/WCDMA Band V: 7W ERP PCS1900/WCDMA Band II: 2W EIRP

TEST CONFIGURATION



TEST PROCEDURE

- 1. EUT was placed on a 0.8 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.0m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
- 2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
- 3. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz,VBW=3MHz for above 1GHz and RBW=100kHz,VBW=300kHz for 30MHz to 1GHz,, And the maximum value of the receiver should be recorded as (Pr).
- 4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the

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frequency band of interest isconnected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

- 5. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
- 6. The measurement results are obtained as described below: Power(EIRP)=PMea- PAg - Pcl + Ga We used SMF100A micowave signal generator which signal level can up to 33dBm,so we not used power Amplifier for substituation test; The measurement results are amend as described below: Power(EIRP)=PMea- Pcl + Ga
- 7. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.

ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP-2.15dBi.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Mode	Channel	Antenna Pol.	ERP	Limit (dBm)	Result
	128	V	31.43		
	120	Н	28.25		
GSM850	190	V	31.33	38.45	Pass
GSIVIOSU	190	Н	28.52	36.43	FdSS
	251	V	30.46		
	251	Н	27.45		
	128	V	31.33		
	120	Н	28.52	38.45	
GPRS850	190 251	V	31.46		Pass
GFK3630		Н	28.33		rass
		V	30.45		
	231	Н	27.35		
	128	V	31.25		
	120	Н	28.55		
EGPRS850	190	V	31.43	38.45	Pass
LOI 1(3030	190	Н	28.43	30.43	1 855
	251	V	30.36		
	231	Н	27.52		

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Mode	Channel	Antenna Pol.	EIRP	Limit (dBm)	Result
	512	V	28.33		
	312	Н	23.52		
PCS1900	661	V	28.43	33.00	Pass
1 001900	001	Н	23.32	33.00	1 833
	810	V	28.52		
	010	Н	23.17		
	512	V	28.44		
		Н	23.52	33.00	
GPRS1900	661	V	28.36		Pass
OI 101300		Н	23.47		1 433
	810	V	28.52		
	010	Н	23.44		
	512	V	28.47		
	012	Н	23.15		
EGPRS1900	661	V	28.52	33.00	Pass
2011(01300	001	Н	23.47	33.00	1 433
	810	V	28.52		
	010	Н	23.66		

Mode	Channel	Antenna Pol.	EIRP	Limit (dBm)	Result
9262 V	0262	V	22.43		
	Н	18.52			
WCDMA Band II	111 0400	V	22.47	33.00	Pass
WCDIVIA Bariu II	9400	Н	18.17	33.00	
	0539	V	22.14		
	9538	Н	18.47		

Mode	Channel	Antenna Pol.	ERP	Limit (dBm)	Result
	4132	V	22.36		5 Pass
	4132	Н	17.45		
WCDMA Band V	4183 V H V 4233 H	V	22.55	38.45	
WCDIVIA Bariu V		Н	17.65		
		V	22.44		
		Н	17.65	1	

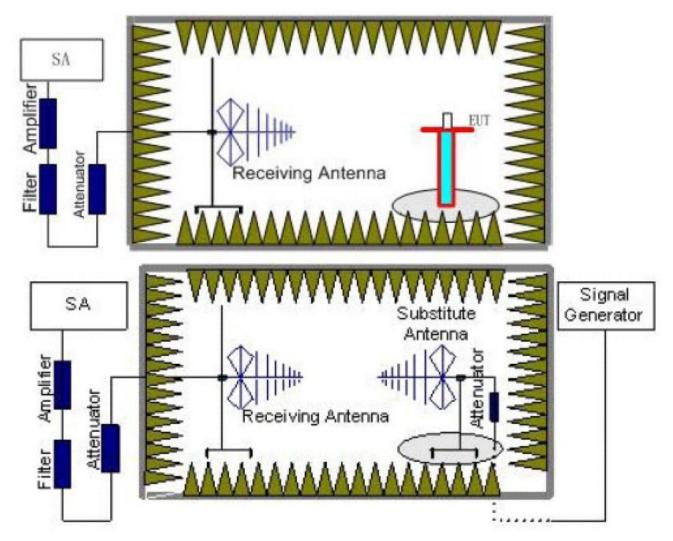
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5.6. Radiated Spurious Emission

LIMIT

-13dBm

TEST CONFIGURATION



TEST RESULTS

- 1. EUT was placed on a 0.8 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.0m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
- 2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
- 3. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz for above 1GHz and RBW=100kHz, VBW=300kHz for 30MHz to 1GHz, And the maximum value of the receiver should be recorded as (Pr).
- 4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest isconnected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the

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substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

- 5. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (PcI) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
- 6. The measurement results are obtained as described below:

Power(EIRP)=PMea- PAg - Pcl + Ga

We used SMF100A micowave signal generator which signal level can up to 33dBm,so we not used power Amplifier for substituation test; The measurement results are amend as described below: Power(EIRP)=PMea- Pcl + Ga

7. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.

ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP-2.15dBi.

Please refer to the clause 3.3

TEST RESULTS

Note:Worst case at GSM850/PCS1900

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		GS	M850		
Channel	Frequency	Spurious	Emission	Limit (dBm)	Result
Chamilei	(MHz)	Polarization	Level (dBm)	Limit (dbin)	Result
	58.31	Vertical	-72.09		
	259.91	V	-61.66		
	1648.51	V	-47.37	-13.00	Pass
	2148.21	V -50.91	-13.00	F455	
	5098.61 V	V	-58.04		
128	8133.18	V	-50.29		
120	87.68	Horizontal	-74.44		
	233.89	Н	-60.44		
	1648.51	Н	-50.91	42.00	Door
	2575.14	Н	-48.04	-13.00	Pass
	5594.50	Н	-57.67		
	8643.97	Н	-48.61		
	58.31	Vertical	-73.81		Pass
	259.91	V	-59.89		
	1672.22	V	-49.03	-13.00	
	2060.37	V	-49.78		Pass
	5742.47	V	-55.88		
400	8581.52	V	-48.28		
190	85.85	Horizontal	-72.43		Pass
	259.91	Н	-55.73		
	1635.88	Н	-50.78	42.00	
	2060.37	Н	-51.60	-13.00	
	5792.66	Н	-56.85		
	7935.11	Н	-49.52		
	156.09	Vertical	-69.12		
	259.91	V	-59.10		
	1698.14	V	-51.05	12.00	Door
	2060.37	V	-49.86	-13.00	Pass
	4240.94	V	-49.56		
054	6794.54	V	-48.18		
251	82.89	Horizontal	-73.08		
	259.91	Н	-55.41		
	1196.11	Н	-53.50	42.00	Dana
	1698.14	Н	-47.35	-13.00	Pass
	4119.70	Н	-55.54		
	5937.25	Н	-52.50		

Remark:

- 1.
- The emission behaviour belongs to narrowband spurious emission. The emission levels of not record in the report are very lower than the limit and not show in test report. 2.

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		PC.	S1900		
Channel	Frequency	Spurious	Emission	Limit (dBm)	Result
Charmer	(MHz)	Polarization	Level (dBm)	Limit (ubin)	Result
	156.09	Vertical	-69.86		
	259.91	V	-60.44		
	1138.41	V	-56.38	12.00	5
	2580.81	V	-44.84	-13.00	Pass
	5554.08	V	-44.77		
E40	7401.51	V	-38.73		
512	86.16	Horizontal	-73.82		
	259.91	Н	-58.04		
	1197.42	Н	-52.65	40.00	D
	2592.17	Н	-47.56	-13.00	Pass
	3859.43	Н	-52.94		
	9253.71	Н	-35.37		
	58.11	Vertical	-73.51		
	259.91	V	-59.40		
	1013.27	V	-54.57	-13.00	_
	2705.65	V	-48.68		Pass
	3759.98	V	-41.51		
204	5643.40	V	-42.75		
661	85.85	Horizontal	-73.98		Pass
	259.91	Н	-56.79		
	1476.99	Н	-54.44	40.00	
	2262.04	Н	-49.77	-13.00	
	3759.98	Н	-47.83		
	5643.40	Н	-42.60		
	98.47	Vertical	-76.56		
	259.91	V	-61.84		
	1764.70	V	-50.05	40.00	Dana
	2395.03	V	-50.34	-13.00	Pass
	3820.45	V	-45.54		
0.4.0	5725.84	V	-41.09		
810	91.79	Horizontal	-72.77		
	259.91	Н	-58.27		
	1747.34	Н	-42.81	40.00	Descri
	2864.72	Н	-35.72	-13.00	Pass
	3820.45	Н	-47.80		
	7641.47	Н	-34.96		

Remark:

- 1.
- The emission behaviour belongs to narrowband spurious emission. The emission levels of not record in the report are very lower than the limit and not show in test report. 2.

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		WCDM	A Band II		
Channel	Frequency	Spurious	Emission	Limit (dPm)	Result
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
	58.11	Vertical	-73.63		
	266.39	V	-63.45		
	1933.18	V	-44.27	42.00	Door
	2519.18	V	-46.36	-13.00	Pass
	3705.85	V	-50.20		
0000	5562.15	V	-47.73		
9262	36.15	Horizontal	-69.17		
	245.69	Н	-63.66		
	1196.11	Н	-55.32	40.00	D
	2058.11	Н	-49.50	-13.00	Pass
	3705.85	Н	-48.15		
	7401.51 H -34.4	-34.43			
	58.31	Vertical	-71.72		
	266.39	V	-60.72		
	1960.99	V	-41.77	40.00	Б
	2519.18	V	-45.29	-13.00	Pass
	3754.53	V	-43.52		
0.400	5643.40	V	-43.40		
9400	99.87	Horizontal	-72.62		
	245.69	Н	-63.61		Pass
	1197.42	Н	-53.29	40.00	
	1960.99	Н	-39.54	-13.00	
	3754.53	Н	-46.19		
	7531.45	Н	-35.31		
	58.11	Vertical	-71.80		
	266.39	V	-61.52		
	1745.42	V	-44.30	42.00	Daga
	1989.20	V	-37.89	-13.00	Pass
	3809.38	V	-45.93		
0500	5725.84	V	-45.59		
9538	58.11	Horizontal	-74.83		
	266.39	Н	-60.90		
	1369.17	Н	-55.30	42.00	Da
	2580.81	Н	-46.14	-13.00	Pass
	3809.38	Н	-45.71		
	5717.54	Н	-73.63		

Remark:

- 1.
- The emission behaviour belongs to narrowband spurious emission. The emission levels of not record in the report are very lower than the limit and not show in test report. 2.

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		WCDM	A Band V		
Channel	Frequency	Spurious	Emission	Limit (dDm)	Dooult
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
	100.57	Vertical	-77.21		
	266.39	V	-63.23		
	1044.92	V	-54.84	-13.00	Pass
	2437.50	V	-47.16	-13.00	r a55
	4327.93	V	-55.68		
4132	8531.88	V	-46.51		
4132	92.43	Horizontal	-73.02		
	266.39	Н	-61.04		
	1194.80	Н	-54.16	-13.00	Daga
	2055.85	Н	-50.79	-13.00	Pass
	4917.07	Н	-53.66		
	8544.26	Н	-44.80		
	58.11	Vertical	-72.47		
	266.39	V	-62.38		
	1747.34	V	-44.73	42.00	D
	1887.02	V	-50.75	-13.00	Pass
	3338.41	V	-55.44		
4400	7889.21	V	-47.59		
4183	35.52	Horizontal	-65.72		Pass
	266.39	Н	-64.31		
	1259.49	Н	-53.06	40.00	
	1764.70	Н	-47.56	-13.00	
	3343.25	Н	-56.97		
	5450.35	Н	-53.10		
	58.11	Vertical	-71.65		
	266.39	V	-62.47		
	1290.30	V	-53.27	42.00	Daga
	1745.42	V	-40.84	-13.00	Pass
	5210.74	V	-53.30		
4000	7854.96	V	-47.04		
4233	91.46	Horizontal	-72.68		
	266.39	Н	-60.24		
	1194.80	Н	-54.03	40.00	Dana
	1747.34	Н	-45.80	-13.00	Pass
	3382.26	Н	-55.37		
	6834.07	Н	-49.39		

Remark

- 1. The emission behaviour belongs to narrowband spurious emission.
- 2. The emission levels of not record in the report are very lower than the limit and not show in test report.

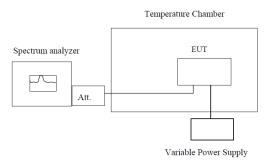
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5.7. Frequency stability V.S. Temperature measurement

LIMIT

2.5ppm

TEST CONFIGURATION



Note: Measurement setup for testing on Antenna connector

TEST PROCEDURE

- 1. The equipment under test was connected to an external DC power supply and input rated voltage.
- 2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators.
- 3. The EUT was placed inside the temperature chamber.
- Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°Coperating frequency as reference frequency.
- 5. Turn EUT off and set the chamber temperature to −30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.
- 6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Note: Worst case at GSM850/PCS1900/WCDMA B2/B5 mid channel

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INCIC	erence Frequency: G	SM850 Middle ch	annel=190 chann	el=836.6MHz	
Power supplied	Temperature (°C) Frequency error		ncy error	Limit (ppm)	Result
(Vdc)	remperature (C)	Hz	ppm	Еппі (рріп)	Nesuit
	-30	9.49	0.011		
	-20	8.78	0.010		
	-10	7.68	0.009		
	0	2.49	0.003		
3.80	10	0.1	0.000	2.50	Pass
	20	9.04	0.011		
	30	14.69	0.018		
	40	6.3	0.008		
	50	4.07	0.005		
Refe	erence Frequency: PC	CS1900 Middle ch	nannel=661 chanı	nel=1880MHz	
Power supplied	Tomporature (°C)	Frequer	ncy error	Limit (nnm)	Dogult
(Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result
	-30	8.88	0.005		
	-20	17.08	0.009		
	-10	18.85	0.010		
	0	2.1	0.001		
3.80	10	9.69	0.005	2.50	Pass
	20	5.07	0.003]	
	30	12.53	0.007		
	40	16.5	0.009		

Refere	nce Frequency: WCDN	MA Band II Middle	channel=9400 c	hannel=1880MHz	<u>7</u>
Power supplied	Temperature (°C)	Frequer	icy error	Limit (ppm)	Result
(Vdc)	remperature (C)	Hz	ppm	Limit (ppin)	Result
	-30	5.34	0.003		
	-20	6.21	0.003		
	-10	7.13	0.004		
	0	6.41	0.003		
3.80	10	6.52	0.003	2.50	Pass
	20	6.68	0.004		
	30	6.73	0.004]	
	40	5.64	0.003		
	50	7.15	0.004		
Referer	nce Frequency: WCDN	MA Band VMiddle	channel=4183 ch	nannel=836.6MH	<u>z</u>
Power supplied	Town a roture (9C)	Frequency error		Lineit (none)	Result
(Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result
	-30	1.92	0.002		
	-20	0.34	0.000		
	-10	0.65	0.001		
	0	0.92	0.001		
3.80	10	0.72	0.001	2.50	Pass
	20	1.05	0.001]	
	30	0.61	0.001	-	
	40	0.58	0.001		
	50	1.25	0.001]	

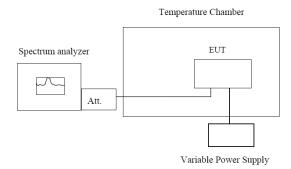
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5.8. Frequency stability V.S. Voltagemeasurement

LIMIT

2.5ppm

TEST CONFIGURATION



Note: Measurement setup for testing on Antenna connector

TEST PROCEDURE

- 1. Set chamber temperature to 25°C. Use a variable DC power source topower the EUT and set the voltage to rated voltage.
- 2. Set the spectrum analyzer RBW lowenough to obtain the desired frequency resolution and recorded the frequency.
- 3. Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, recordthe maximum frequency change.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Note:Worst case at GSM850/PCS1900/WCDMA B2/B5 mid channel

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Reference	Frequency: GSM85	0 (GSM link) Mido	lle channel=190 d	channel=836.6MF	Ηz	
Temperature (°C)	Power supplied	Frequen	icy error	Limit (ppm)	Result	
Temperature (C)	(Vdc)	Hz	ppm	Еппи (ррпп)	Result	
	4.35	2.49	0.003			
25	3.80	5.28	0.006	2.50	Pass	
	3.60	9.04	0.011			
Reference	Frequency: PCS190	00 (GSM link) Mide	dle channel=661	channel=1880Ml	l z	
Temperature (°C)	Power supplied	Frequen	cy error	Limit (ppm)	Result	
remperature (0)	(Vdc)	Hz	ppm	Еппі (рріп)	Result	
	4.35	6.74	0.004			
25	3.80	9.69	0.005	2.50	Pass	
	3.60	5.07	0.003			
Reference	ce Frequency: WCDN	MA Band II Middle	channel=9400 ch	nannel=1880MHz	<u>z</u>	
Temperature (°C)	Power supplied	Frequen	icy error	Limit ((ppm)	
Temperature (C)	(Vdc)	Hz	ppm	Res	sult	
	4.35	6.41	0.003			
25	3.80	6.52	0.003	2.50	Pass	
	3.60	6.68	0.004			
Reference	ce Frequency: WCDN	MA Band VMiddle	channel=4183 ch	annel=836.6MH	Z	
	Power supplied	Frequency error		Limit (ppm)	Result	
Tomporature (°C)	. onor cappilea					
Temperature (°C)	(Vdc)	Hz	ppm	Еппи (ррпп)	resuit	
Temperature (°C)	• •	Hz 0.92	ppm 0.001	Еппи (ррпп)	resuit	
Temperature (°C)	(Vdc)			2.50	Pass	

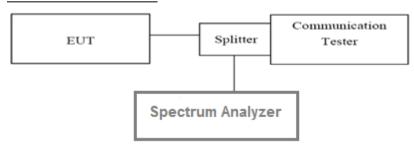
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5.9. Peak-Average Ratio

LIMIT

13dB

TEST CONFIGURATION



TEST PROCEDURE

According with KDB 971168

- 1. The signal analyzer's CCDF measurement profile is enabled
- 2. Frequency = carrier center frequency
- 3. Measurement BW > Emission bandwidth of signal
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve
- 5. The measurement interval was set depending on the type of signal analyzed. Forcontinuous signals (>98% duty cycle), the measurement interval was set to 1ms. For bursttransmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that issynced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Note:Worst case PCS1900,WCDMA BAND1900

Band	Channel	Frequency(MHz)	PAR	Limit(dB)	Result
PCS1900	512	1850.2	2.43	13.00	Pass
	661	1880.0	2.35	13.00	Pass
	810	1909.8	2.46	13.00	Pass

Band	Channel	Frequency(MHz)	PAR	Limit(dB)	Result
WCDMA BAND II	9262	1852.4	3.56	13.00	Pass
	9400	1880.0	3.58	13.00	Pass
	9538	1907.6	3.54	13.00	Pass

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6. Test Setup Photos of the EUT

Radiated emission:





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7. External and Internal Photos of the EUT

External photos of the EUT







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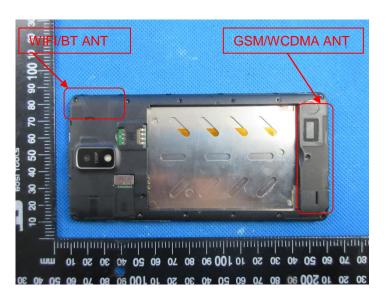


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Internal photos of the EUT

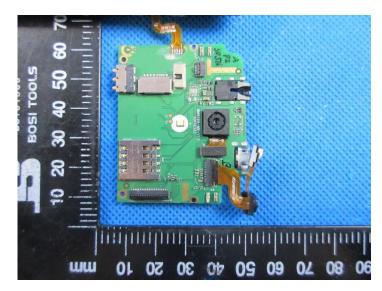


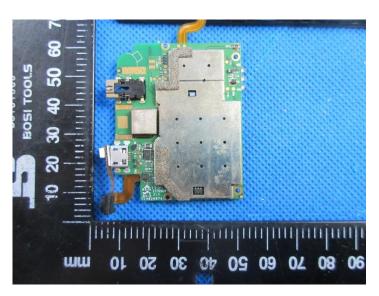




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