

# FCC REPORT

**Applicant:** Nexus Telecom Inc

**Address of Applicant:** PO Box 873, Venterpool Plaza 873 Road Town, Tortola Virgin Islands (British)

**Equipment Under Test (EUT)**

Product Name: smart phone

Model No.: GOW10

Trade mark: GOMOBILE

**FCC ID:** YSEGOW10

FCC CFR Title 47 Part 2

**Applicable standards:** FCC CFR Title 47 Part 22 Subpart H  
FCC CFR Title 47 Part 24 Subpart E

**Date of sample receipt:** 29 Jun., 2015

**Date of Test:** 29 Jun., to 24 Jul., 2015

**Date of report issued:** 24 Jul., 2015

**Test Result:** PASS \*

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang  
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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## 2. Version

Version No.	Date	Description
00	24 Jul., 2015	Original

Prepared by:

*Luna Gao*

Date:

24 Jul., 2015

**Report Clerk**

Reviewed by:

*Gaven Liu*

Date:

24 Jul., 2015

**Project Engineer**

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## 4. Test Summary

Test Item	Section in CFR 47	Result
RF Exposure (SAR)	Part 1.1307 Part 2.1093	Passed* (Please refer to SAR Report)
RF Output Power	Part 2.1046 Part 22.913 (a)(2) Part 24.232 (c)	Pass
Modulation Characteristics	Part 2.1047	Pass
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 22.917 Part 24.238	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 22.917 (a) Part 24.238 (a)	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 22.917 (a) Part 24.238 (a)	Pass
Out of band emission, Band Edge	Part 22.917 (a) Part 24.238 (a)	Pass
Frequency stability vs. temperature	Part 2.1055(a)(1)(b)	Pass
Frequency stability vs. voltage	Part 2.1055(d)(1)(2)	Pass

*Pass: The EUT complies with the essential requirements in the standard.*

## 5. General Information

### 5.1 Client Information

Applicant:	Nexus Telecom Inc
Address of Applicant:	PO Box 873, Venterpool Plaza 873 Road Town, Tortola Virgin Islands (British)
Manufacturer:	Shenzhen JSR Technology Co.,Ltd.
Address of Manufacturer:	2F-3#, Lianjian Science&Industry Park, Huarong Road, Dalang, Longhua New District, Shenzhen City, Guangdong, Province, P.R China
Factory:	Shenzhen JSR Technology Co.,Ltd. Guangming Branch
Address of Factory:	Block B, 4F-B16#, NO.1 Street, Baihuadong First Industrial Park, Guangming Road, Guangming New District, Shenzhen City, Guangdong Province, P.R.China(Branch Address)

### 5.2 General Description of E.U.T.

Product Name:	smart phone
Model No.:	GOW10
Operation Frequency range:	GSM 850: 824.20MHz-848.80MHz PCS1900: 1850.20MHz-1909.80MHz WCDMA Band V:826.4MHz-846.6MHz WCDMA Band II:1852.4 MHz -1907.6 MHz
Modulation type:	GSM/GPRS:GMSK, UMTS:BPSK, EGPRS: 8PSK
Antenna type:	Integral Antenna
Antenna gain:	GSM 850: -4.0 dBi PCS 1900: -1.5 dBi WCDMA 850: -4.0 dBi WCDMA 1900: -1.5dBi
AC adapter:	Model: ASUC37a-050100 Input:100-240V AC,50/60Hz 0.3A Output:5V DC MAX 1A
Power supply:	Rechargeable Li-ion Battery DC3.7V-1420mAh

**Operation Frequency List:**

GSM 850		PCS1900	
Channel:	Frequency (MHz)	Channel:	Frequency (MHz)
128	824.20	512	1850.20
129	824.40	513	1850.40
....	....	....	....
189	836.40	660	1879.80
190	836.60	661	1880.00
191	836.80	662	1880.20
...	...	...	...
250	848.60	809	1909.60
251	848.80	810	1909.80
WCDMA Band V		WCDMA Band II	
Channel:	Frequency (MHz)	Channel:	Frequency (MHz)
4132	826.40	9262	1852.40
4133	826.60	9263	1852.60
....	....	....	....
4182	836.40	9399	1879.80
4183	836.60	9400	1880.00
4184	836.80	9401	1880.20
...	...	...	...
4232	846.40	9537	1907.40
4233	846.60	9538	1907.60

Regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

GSM850			PCS1900		
Channel		Frequency(MHz)	Channel		Frequency(MHz)
Lowest channel	128	824.20	Lowest channel	512	1850.20
Middle channel	190	836.60	Middle channel	661	1880.00
Highest channel	251	848.80	Highest channel	810	1909.80
WCDMA Band V			WCDMA Band II		
Channel		Frequency(MHz)	Channel		Frequency(MHz)
Lowest channel	4132	826.40	Lowest channel	9262	1852.40
Middle channel	4183	836.60	Middle channel	9400	1880.00
Highest channel	4233	846.60	Highest channel	9538	1907.60

## 5.3 Test modes

Communicate mode (GSM850)	Keep the EUT in communicating mode on GSM 850 band.
Data mode (GPRS850)	Keep the EUT in data communicating mode on GPRS 850 band.
Data mode (EGPRS850)	Keep the EUT in data communicating mode on EGPRS 850 band.
Communicate mode (PCS1900)	Keep the EUT in communicating mode on PCS1900 band.
Data mode (GPRS1900)	Keep the EUT in data communicating mode on GPRS1900 band.
Data mode (EGPRS1900)	Keep the EUT in data communicating mode on EGPRS1900 band.
Communicate mode (UMTS 850)	Keep the EUT in communicating mode on UMTS 850 band.
Communicate mode (UMTS 1900)	Keep the EUT in communicating mode on UMTS 1900 band.
Data mode (RMC UMTS 850)	Keep the EUT in data communicating mode on RMC in UMTS 850 (12.2 kbps, 64 kbps, 144 kbps & 384 kbps).
Data mode (HSDPA UMTS 850)	Keep the EUT in data communicating mode on HSDPA in UMTS 850(Sub-test 1~Sub-test 4).
Data mode (HSUPA UMTS 850)	Keep the EUT in data communicating mode on HSUPA in UMTS 850(Sub-test 1~Sub-test 5).
Data mode (RMC UMTS 1900)	Keep the EUT in data communicating mode on RMC in UMTS 850 (12.2 kbps, 64 kbps, 144 kbps & 384 kbps).
Data mode (HSDPA UMTS 1900)	Keep the EUT in data communicating mode on HSDPA in UMTS 1900. (Sub-test 1~Sub-test 4).
Data mode (HSUPA UMTS 1900)	Keep the EUT in data communicating mode on HSUPA in UMTS 1900. (Sub-test 1~Sub-test 5).
Remark:	Pre-test output power of all modes, and found GSM 850, PCS 1900, UMTS 850 12.2 kbps RMC & UMTS 1900 12.2 kbps RMC were the worst case. The details please refer to section 6.5.

## 5.4 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is filing to comply with Section Part 22 subpart H and Part 24 subpart E of the FCC CFR 47 Rules.

## 5.5 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on TIA/EIA 603 and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057

## 5.6 Laboratory Facility

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

- **FCC - Registration No.: 817957**

Shenzhen Zhongjian Nanfang Testing 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 817957, February 27, 2012.

- **IC - Registration No.: 10106A-1**

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L6048**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

## 5.7 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.  
Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,  
Bao'an District, Shenzhen, Guangdong, China  
Tel: +86-755-23118282  
Fax: +86-755-23116366



## 5.8 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	08-23-2014	08-22-2017
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	03-28-2015	03-28-2016
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	03-28-2015	03-28-2016
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
5	Amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	04-01-2015	03-31-2016
6	Amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	04-01-2015	03-31-2016
7	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	04-01-2015	03-31-2016
8	Horn Antenna	ETS-LINDGREN	3160	GTS217	04-01-2015	03-31-2016
9	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A
10	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A
11	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP 30	CCIS0023	03-28-2015	03-28-2016
12	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	03-28-2015	03-28-2016
13	Loop antenna	Laplace instrument	RF300	EMC0701	04-01-2015	03-31-2016
14	Universal radio communication tester	Rhode & Schwarz	CMU200	CCIS0069	03-28-2015	03-28-2016
15	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	04-08-2015	04-08-2016

## 6. System test configuration

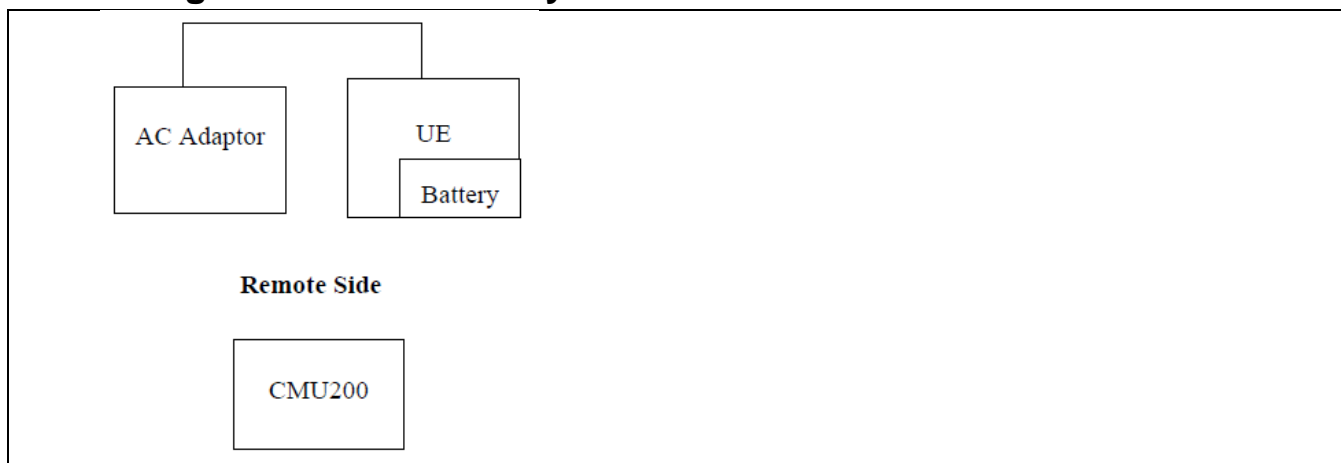
### 6.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 6.2 EUT Exercise

The EUT (Transmitter) was operated in the engineering mode to fix the Tx frequency which was for the purpose of the measurements.

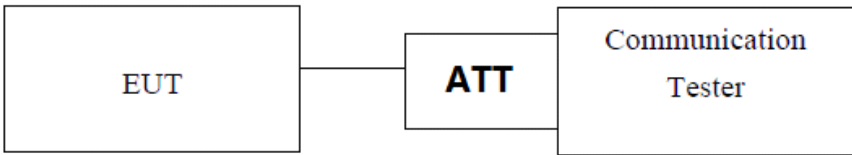
### 6.3 Configuration of Tested System



### 6.4 Description of Test Modes

The EUT has been tested under operating condition. EUT staying in continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing. The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for three modes (GSM850, PCS1900, WCDMA Band V and WCDMA Band II) with power adaptor, earphone and Data cable. The worst-case H mode for GSM850, PCS1900, UMTS 850 and UMTS 1900.

## 6.5 Conducted Output Power

Test Requirement:	FCC part 22.913(a) and FCC part 24.232(b)
Test Method:	FCC part 2.1046
Limit:	GSM 850: 7W PCS 1900: 2W WCDMA Band V: 7W WCDMA Band II: 2W
Test setup:	 <p><i>Note: Measurement setup for testing on Antenna connector</i></p>
Test Procedure:	The transmitter output was connected to a calibrated attenuator, the other end of which was connected to the CMU200. Transmitter output power was read off in dBm.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data

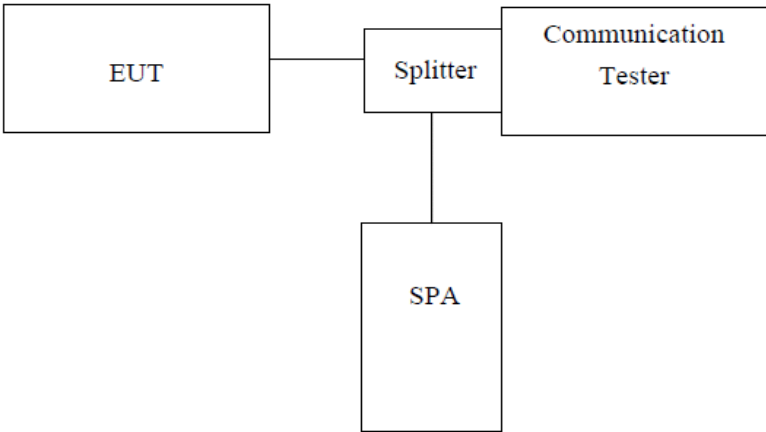
EUT Mode	Channel	Frequency (MHz)	Burst Average power (dBm)	Limit(dBm)	Result
GSM 850	128	824.20	31.39	38.45	Pass
	190	836.60	31.35		
	251	848.80	31.43		
GPRS 850 (1 Uplink slot)	128	824.20	31.42		
	190	836.60	31.36		
	251	848.80	31.44		
GPRS 850 (2 Uplink slots)	128	824.20	30.10		
	190	836.60	29.92		
	251	848.80	30.01		
GPRS 850 (3 Uplink slots)	128	824.20	28.39		
	190	836.60	28.43		
	251	848.80	28.43		
GPRS 850 (4 Uplink slots)	128	824.20	26.31		
	190	836.60	26.30		
	251	848.80	26.38		
EGPRS 850 (1 Uplink slot)	128	824.20	25.09		
	190	836.60	25.09		
	251	848.80	25.02		
EGPRS 850 (2 Uplink slots)	128	824.20	23.13		
	190	836.60	23.18		
	251	848.80	23.22		
EGPRS 850 (3 Uplink slot)	128	824.20	21.49		
	190	836.60	21.42		
	251	848.80	21.31		
EGPRS 850 (4 Uplink slot)	128	824.20	20.50		
	190	836.60	20.40		
	251	848.80	20.49		

PCS 1900	512	1850.20	28.38	33.00	Pass
	661	1880.00	28.37		
	810	1909.80	28.54		
GPRS 1900 (1 Uplink slot)	512	1850.20	28.38		
	661	1880.00	28.60		
	810	1909.80	28.61		
GPRS 1900 (2 Uplink slots)	512	1850.20	28.38		
	661	1880.00	28.40		
	810	1909.80	28.43		
GPRS 1900 (3 Uplink slots)	512	1850.20	26.57		
	661	1880.00	26.61		
	810	1909.80	26.62		
GPRS 1900 (4 Uplink slots)	512	1850.20	24.48		
	661	1880.00	24.57		
	810	1909.80	24.64		
EGPRS 1900 (1 Uplink slot)	512	1850.20	24.30		
	661	1880.00	24.29		
	810	1909.80	24.27		
EGPRS 1900 (2 Uplink slots)	512	1850.20	23.98		
	661	1880.00	24.00		
	810	1909.80	24.02		
EGPRS 1900 (3 Uplink slot)	512	1850.20	23.89		
	661	1880.00	23.74		
	810	1909.80	23.39		
EGPRS 1900 (4 Uplink slots)	512	1850.20	23.27		
	661	1880.00	23.27		
	810	1909.80	23.39		

EUT Mode		Channel	Frequency (MHz)	Burst Average power (dBm)	Limit(dBm)	Result
UMTS 850 HSDPA	Subtest 1	4132	826.40	21.52	38.45	Pass
		4183	836.00	21.47		
		4233	846.60	21.34		
	Subtest 2	4132	826.40	21.36		
		4183	836.00	21.31		
		4233	846.60	21.26		
	Subtest 3	4132	826.40	20.07		
		4183	836.00	19.90		
		4233	846.60	19.92		
	Subtest 4	4132	826.40	19.90		
		4183	836.00	19.57		
		4233	846.60	19.55		
UMTS 850 HSUPA	Subtest 1	4132	826.40	20.87		
		4183	836.00	20.77		
		4233	846.60	20.96		
	Subtest 2	4132	826.40	21.26		
		4183	836.00	21.21		
		4233	846.60	21.15		
	Subtest 3	4132	826.40	20.56		
		4183	836.00	20.40		
		4233	846.60	20.36		
	Subtest 4	4132	826.40	21.53		
		4183	836.00	21.55		
		4233	846.60	21.42		
	Subtest 5	4132	826.40	20.67		
		4183	836.00	20.69		
		4233	846.60	20.50		
UMTS 850 RMC	12.2kbps	4132	826.40	22.58		
		4183	836.00	22.49		
		4233	846.60	22.38		
UMTS 850 AMR	12.2kbps	4132	826.40	22.57		
		4183	836.00	22.45		
		4233	846.60	22.10		

EUT Mode		Channel	Frequency (MHz)	Burst Average power (dBm)	Limit(dBm)	Result
UMTS1900 HSDPA	Subtest 1	9262	1852.40	21.43	33.00	Pass
		9400	1880.00	21.35		
		9538	1907.60	20.96		
	Subtest 2	9262	1852.40	21.24		
		9400	1880.00	21.35		
		9538	1907.60	20.71		
	Subtest 3	9262	1852.40	19.76		
		9400	1880.00	19.81		
		9538	1907.60	19.45		
	Subtest 4	9262	1852.40	19.58		
		9400	1880.00	19.56		
		9538	1907.60	19.06		
UMTS1900 HSUPA	Subtest 1	9262	1852.40	20.65		
		9400	1880.00	20.62		
		9538	1907.60	20.16		
	Subtest 2	9262	1852.40	21.11		
		9400	1880.00	21.11		
		9538	1907.60	20.65		
	Subtest 3	9262	1852.40	20.29		
		9400	1880.00	20.16		
		9538	1907.60	19.86		
	Subtest 4	9262	1852.40	20.64		
		9400	1880.00	20.43		
		9538	1907.60	20.11		
	Subtest 5	9262	1852.40	20.24		
		9400	1880.00	20.16		
		9538	1907.60	20.55		
UMTS1900 RMC	12.2kbps	9262	1852.40	22.36		
		9400	1880.00	22.32		
		9538	1907.60	22.00		
UMTS1900 AMR	12.2kbps	9262	1852.40	22.27		
		9400	1880.00	22.21		
		9538	1907.60	21.78		

## 6.6 Occupy Bandwidth

Test Requirement:	FCC part 22.913(a) and FCC part 24.232(b)
Test Method:	FCC part 2.1049
Test setup:	 <p><i>Note: Measurement setup for testing on Antenna connector</i></p>
Test Procedure:	<ol style="list-style-type: none"> <li>1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer</li> <li>2. RBW was set to about 1% of emission BW, VBW= 3 times RBW.</li> <li>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.</li> </ol>
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

### Measurement Data

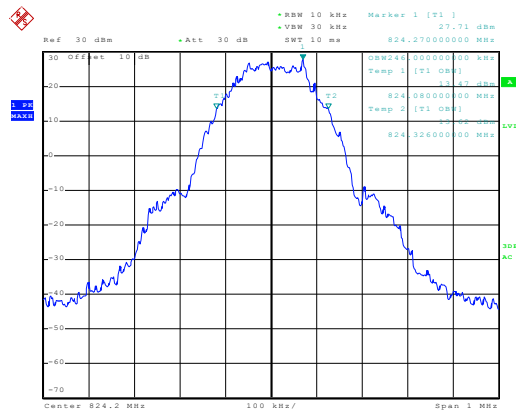


EUT Mode	Channel	Frequency (MHz)	99% Occupy bandwidth (kHz)	-26dB bandwidth (kHz)
GSM 850	128	824.2	246	320
	190	836.6	244	316
	251	848.8	246	318
EGPRS850	128	824.2	244	310
	190	836.6	246	306
	251	848.8	246	314
PCS 1900	512	1850.2	242	316
	661	1880.0	248	318
	810	1909.8	246	320
EGPRS1900	512	1850.2	242	318
	661	1880.0	244	310
	810	1909.8	244	316
UMTS850 12.2k RMC	4132	824.40	4180	4760
	4183	836.00	4180	4740
	4233	846.60	4180	4740
UMTS1900 12.2k RMC	9262	1852.40	4180	4760
	9400	1880.00	4200	4740
	9538	1907.60	4180	4760

Note: GSM & GPRS use the same modulation technical (GMSK), and with the same channels, so the 99% OBW and the -26dB of GPRS not performed.

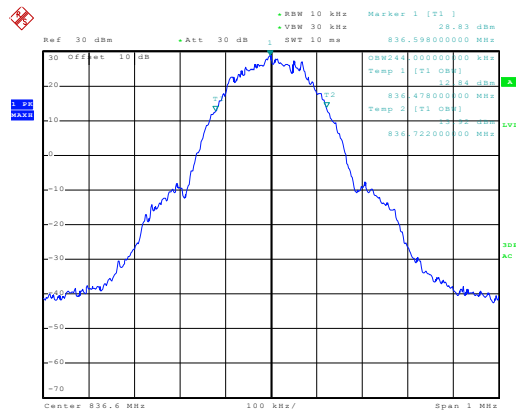
Test plot as follows:

## 99% Occupy bandwidth GSM850



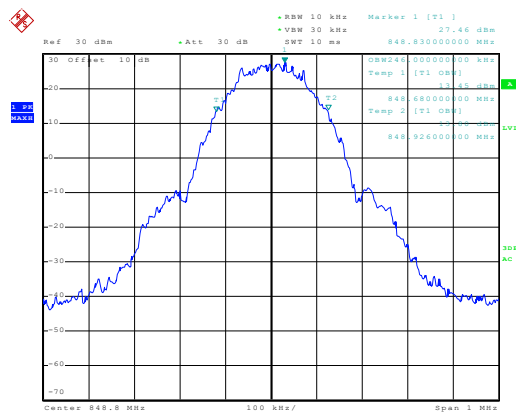
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## Lowest channel



Date: 1.JUL.2015 17:27:58

## Middle channel

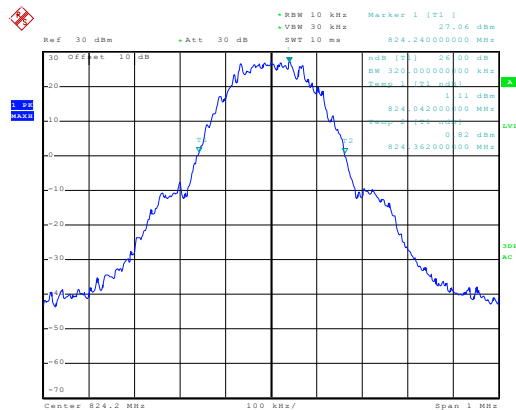


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## Highest channel

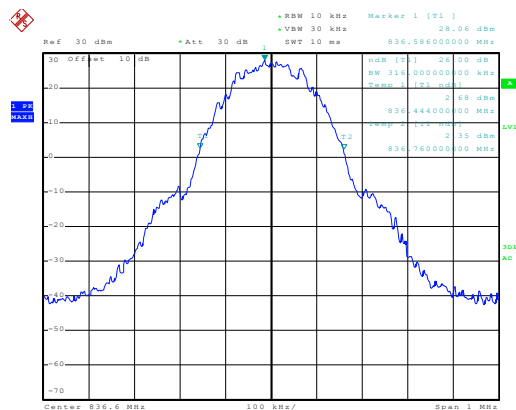
## 26dB Emission Bandwidth

## GSM850



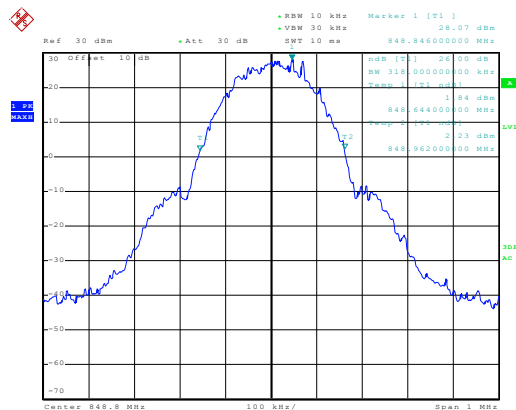
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## Lowest channel



Date: 1..JUL..2015 17:25:15

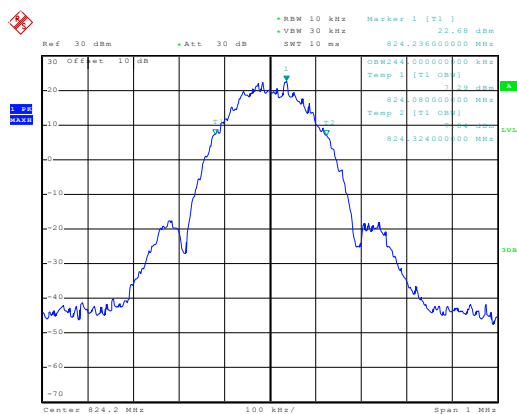
## Middle channel



Date: 1..JUL..2015 17:24:46

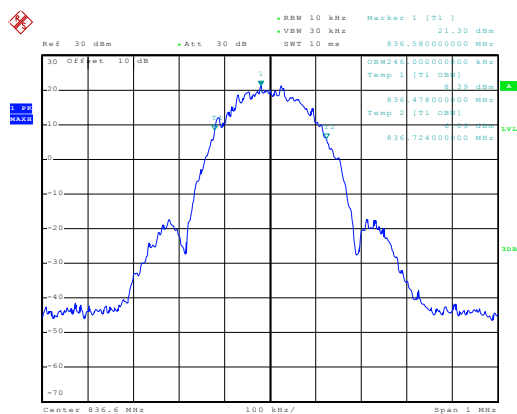
## Highest channel

## 99% Occupy bandwidth EGPRS850



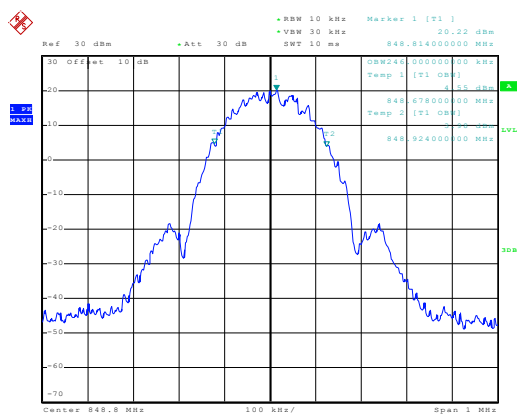
Date: 7.JUL.2015 17:26:30

## Lowest channel



Date: 7.JUL.2015 17:27:06

## Middle channel

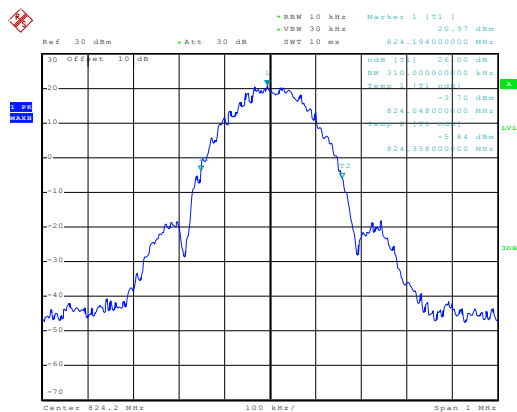


Date: 7.JUL.2015 17:27:29

## Highest channel

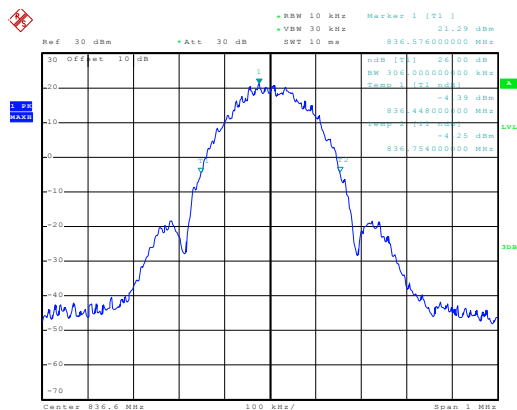
## 26dB Emission Bandwidth

### EGPRS850



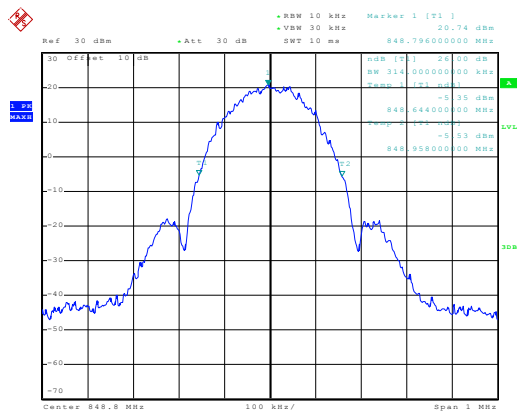
Date: 7.JUL.2015 17:22:29

### Lowest channel



Date: 7.JUL.2015 17:22:09

### Middle channel

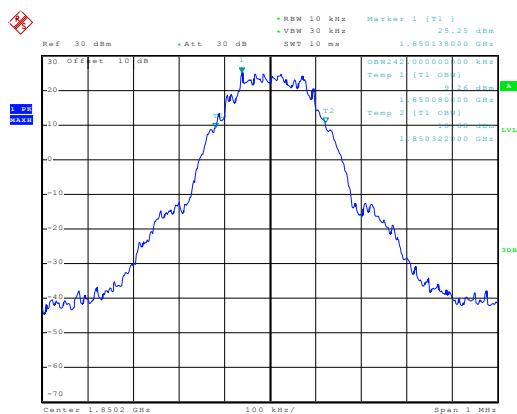


Date: 7.JUL.2015 17:21:46

### Highest channel

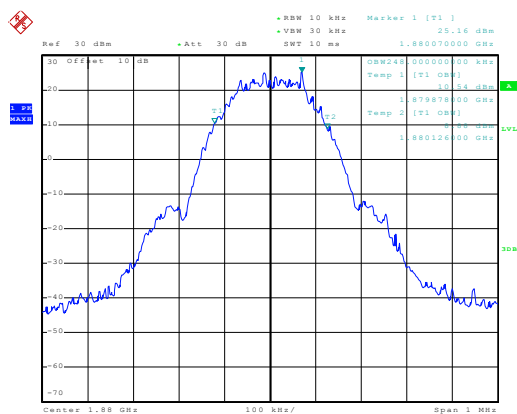
## 99% Occupy bandwidth

### PCS 1900



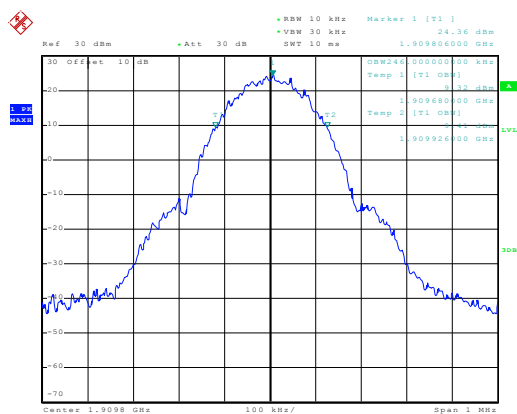
Date: 7.JUL.2015 16:54:19

### Lowest channel



Date: 7.JUL.2015 16:53:55

### Middle channel

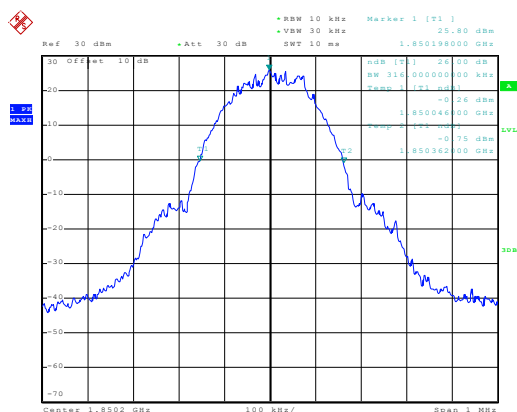


Date: 7.JUL.2015 16:54:47

### Highest channel

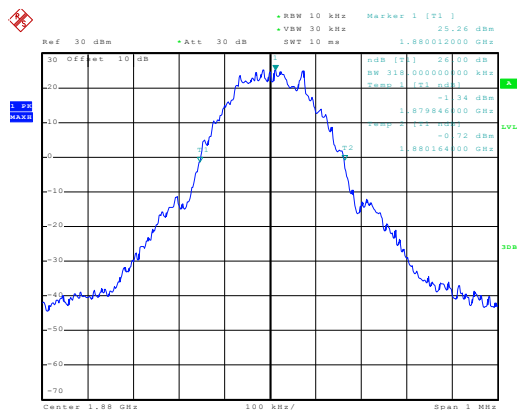
## 26dB Emission Bandwidth

### PCS 1900



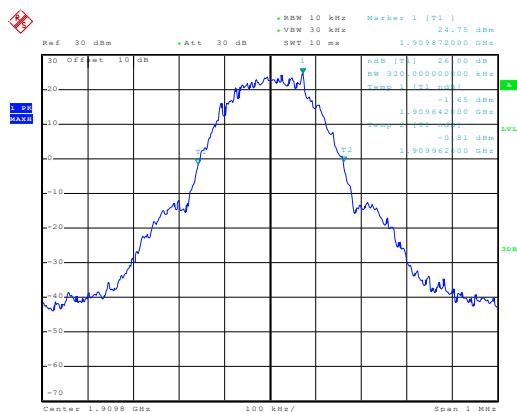
Date: 7..JUL..2015 16:56:02

### Lowest channel



Date: 7.JUL.2015 16:55:34

### Middle channel

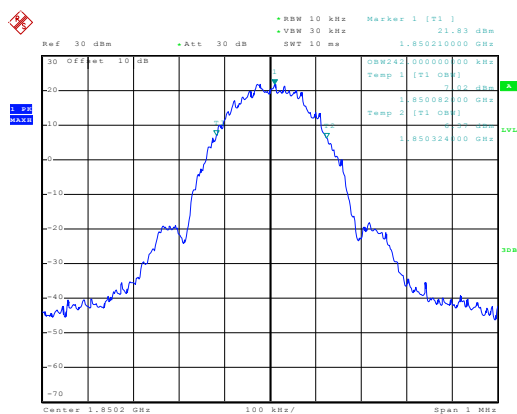


Date: 7..JUL..2015 16:55:09

### Highest channel

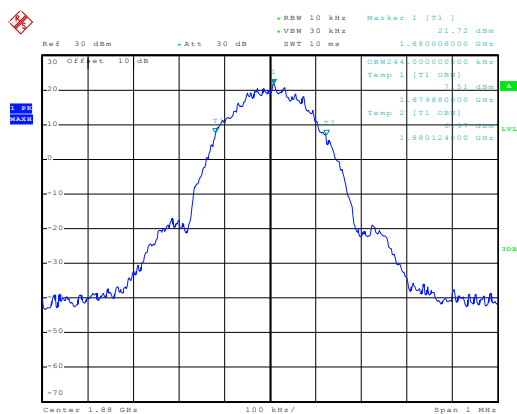
## 99% Occupy bandwidth

## EGPRS 1900



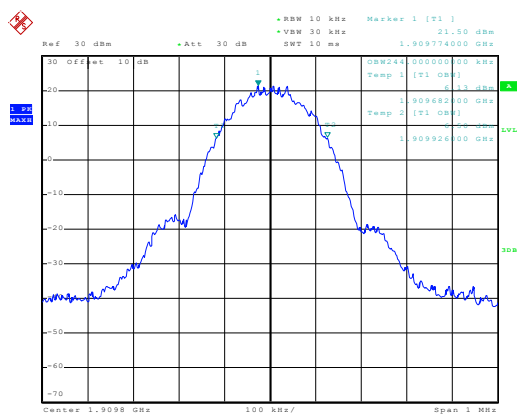
Date: 7.JUL.2015 17:29:53

## Lowest channel



Date: 7.JUL.2015 17:29:12

## Middle channel



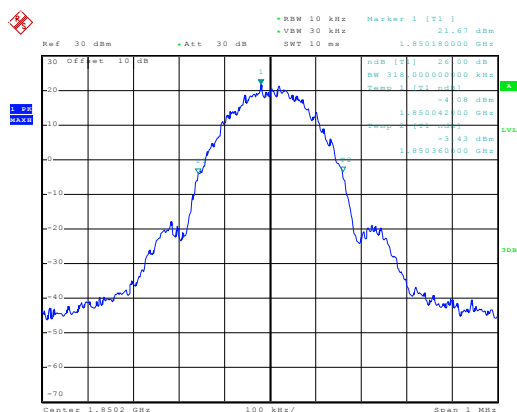
Date: 7.JUL.2015 17:30:48

## Highest channel



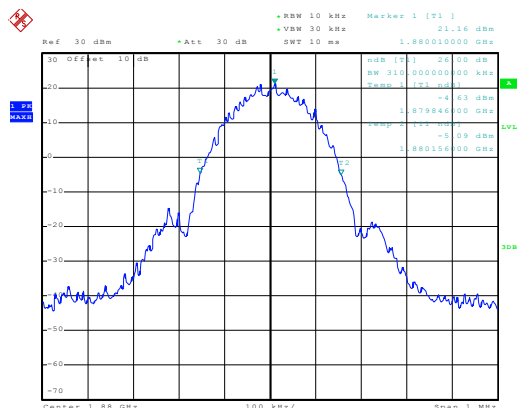
## 26dB Emission Bandwidth

### EGPRS 1900



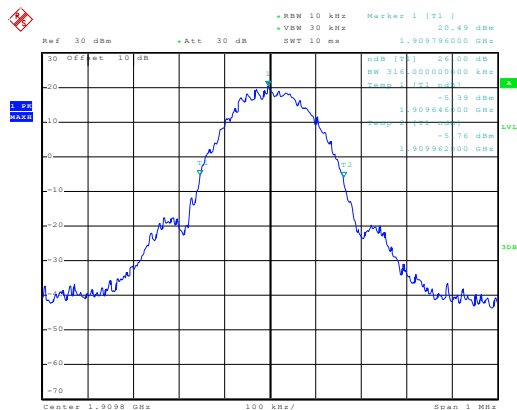
Date: 7..III..2015 17:11:33

### Lowest channel



Date: 7.JUL.2015 17:12:14

### Middle channel

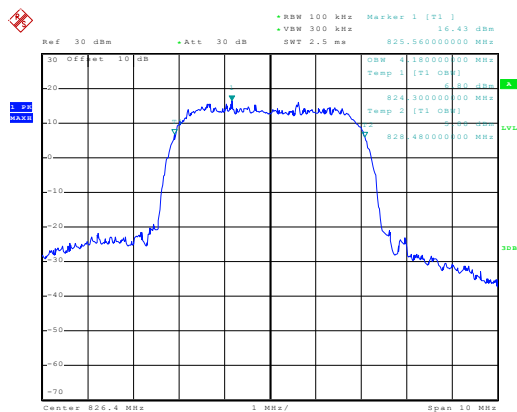


Date: 7..III..2015 17:12:40

### Highest channel

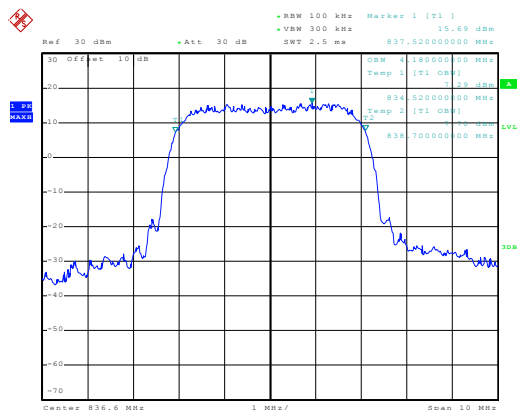
## 99% Occupy bandwidth

### UMTS 850 12.2k RMC



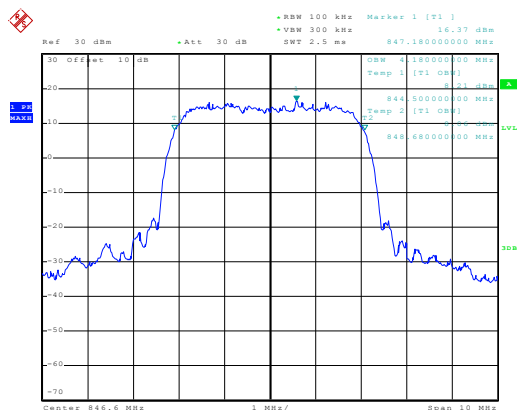
Date: 7.JUL.2015 17:55:35

### Lowest channel



Date: 7.JUL.2015 17:55:08

### Middle channel

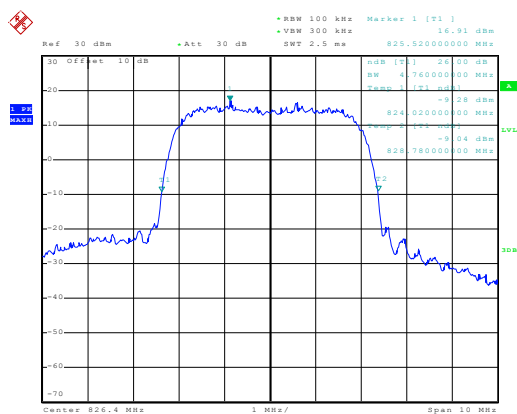


Date: 7.JUL.2015 17:54:33

### Highest channel

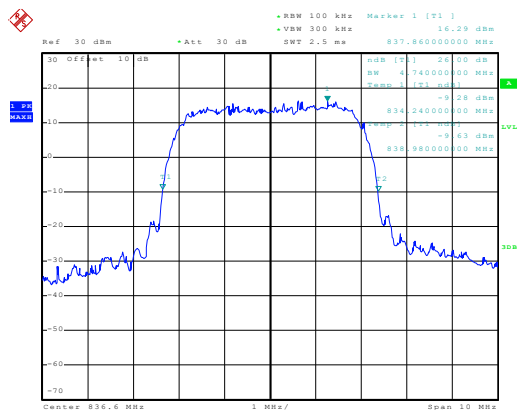
## 26dB Emission Bandwidth

## UMTS 850 12.2k RMC



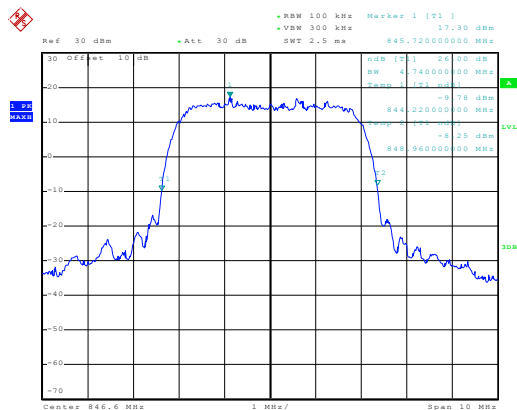
Date: 7..JUL..2015 17:56:40

## Lowest channel



Date: 7.JUL.2015 17:57:30

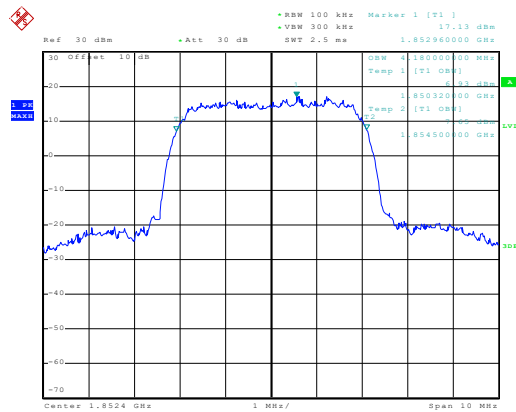
## Middle channel



Date: 7..JUL..2015 17:58:24

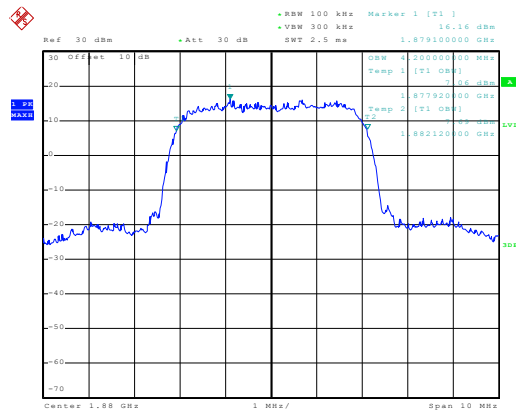
## Highest channel

## 99% Occupy bandwidth UMTS 1900 12.2k RMC



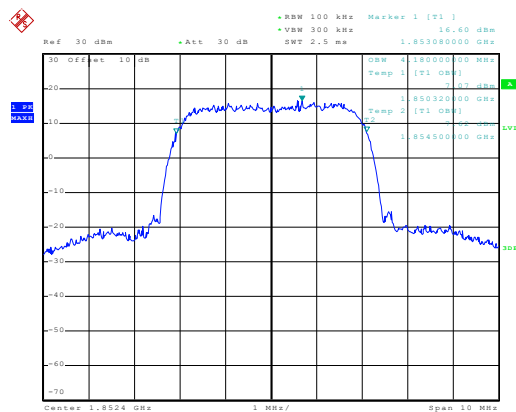
Date: 7.JUL.2015 17:41:30

### Lowest channel



Date: 7.JUL.2015 17:36:35

### Middle channel

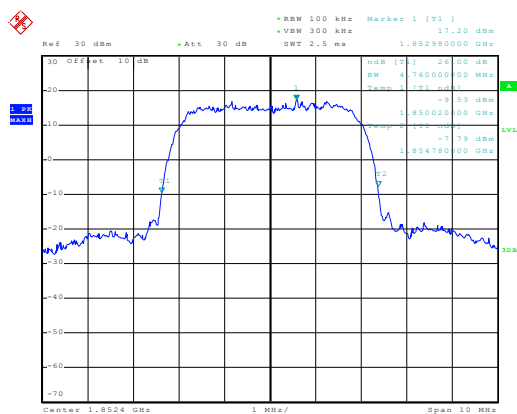


Date: 7.JUL.2015 17:37:07

### Highest channel

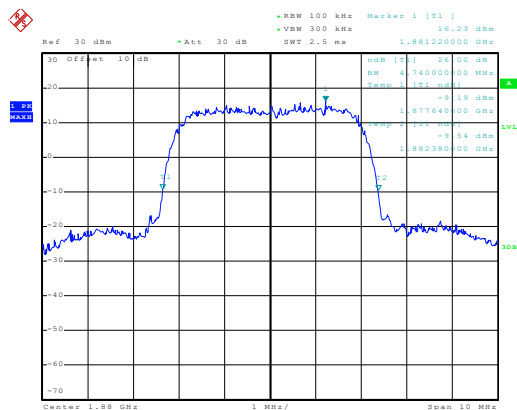
## 26dB Emission Bandwidth

## UMTS 1900 12.2k RMC



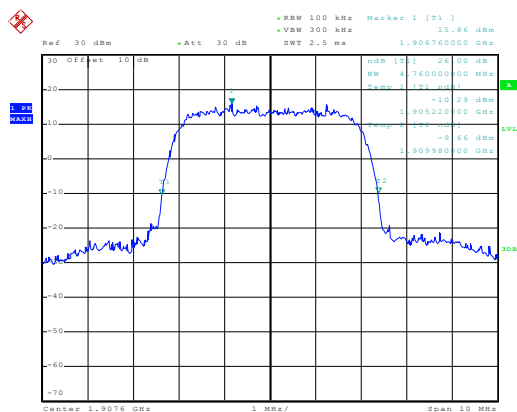
Date: 7..III..2015 17:40:50

Lowest channel



Date: 7.JUL.2015 17:38:45

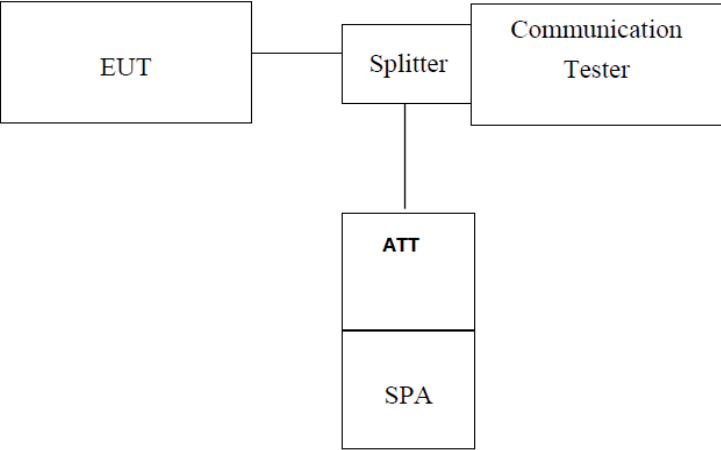
Middle channel



Date: 7..III..2015 17:39:12

## Highest channel

## 6.7 Peak-to-Average Ratio

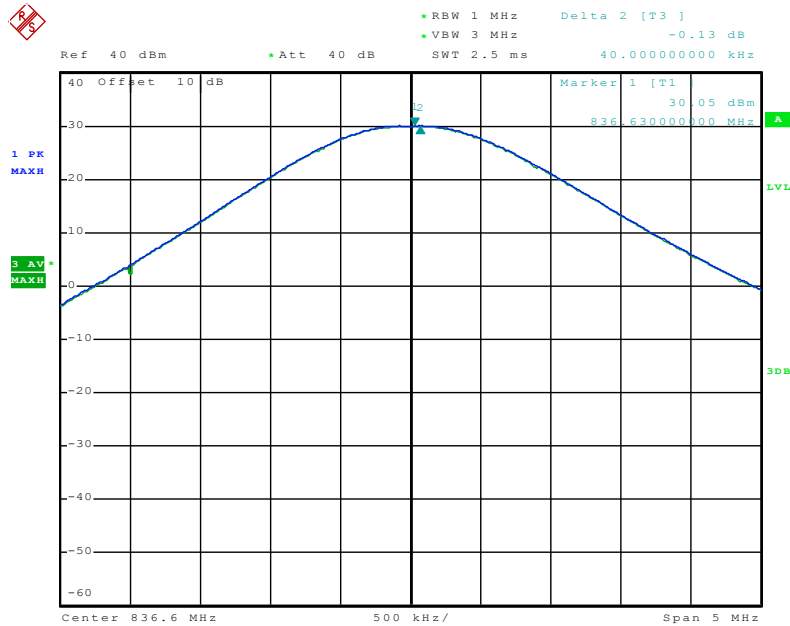
Test Requirement:	FCC part 24.232(d)
Limit:	The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.
Test setup:	 <p><i>Note: Measurement setup for testing on Antenna connector</i></p>
Test Procedure:	<ol style="list-style-type: none"> <li>1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.</li> <li>2 Set the CCDF option in spectrum analyzer, <math>RBW \geq OBW</math>,</li> <li>3 Set the EUT working in highest power level, measured and recorded the 0.1% as PAPR level.</li> <li>4 Repeat step 1~3 at other frequency and modulations.</li> </ol>
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

### Measurement Data (worst case)

Modulation	Test channel	PAPR
GSM 850	190	0.13
EGPRS 850	190	0.17
PCS 1900	661	0.09
EGPRS 1900	661	0.15
UMTS 850 RMC	4183	3.20
UMTS1900 RMC	9400	3.20

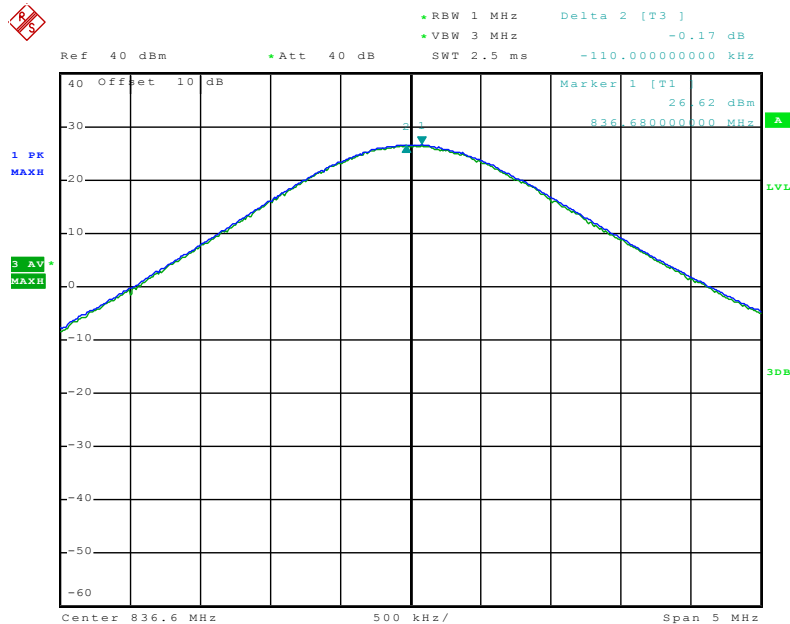
Test plots as below:

Middle channel  
Modulation: GSM 850



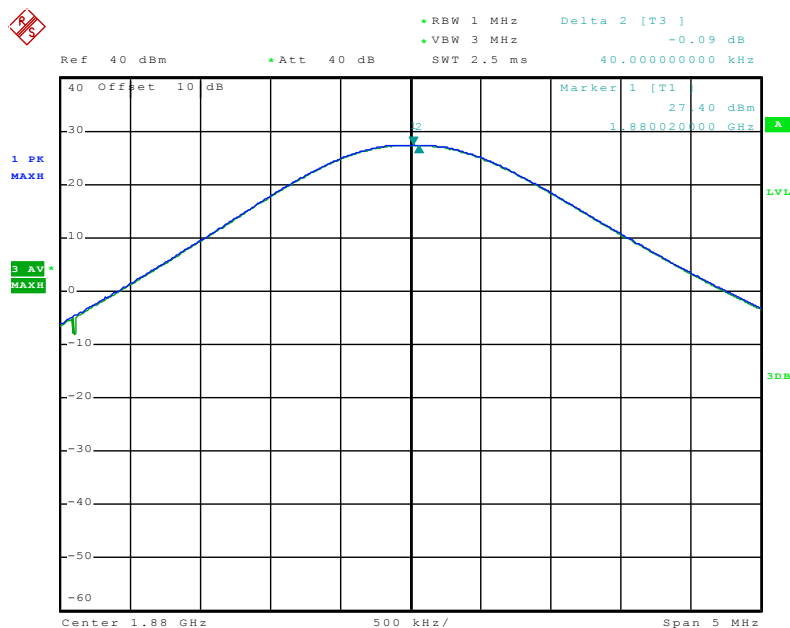
Date: 17.JUL.2015 20:30:11

Middle channel  
Modulation: EGPRS 850



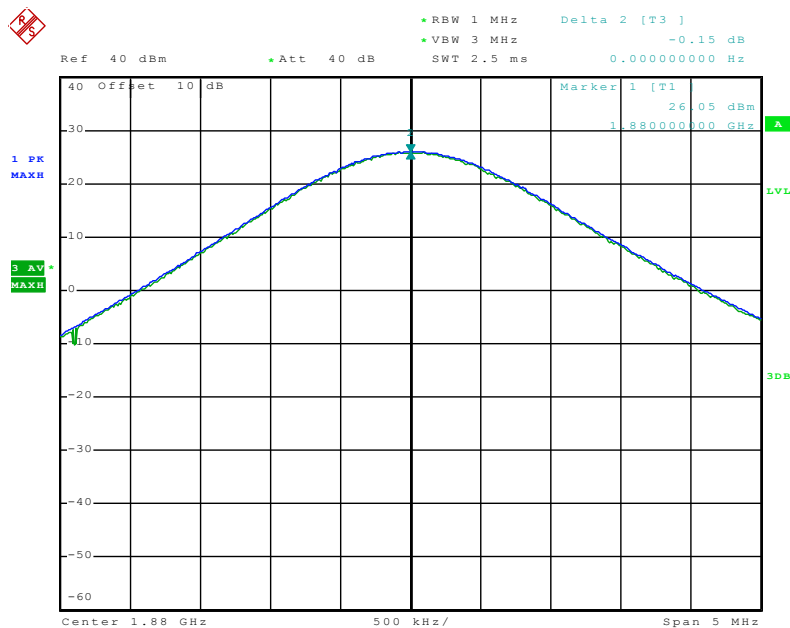
Date: 17.JUL.2015 20:32:40

Middle channel  
Modulation: PCS 1900



Date: 17.JUL.2015 20:30:47

Middle channel  
Modulation: EGPRS 1900

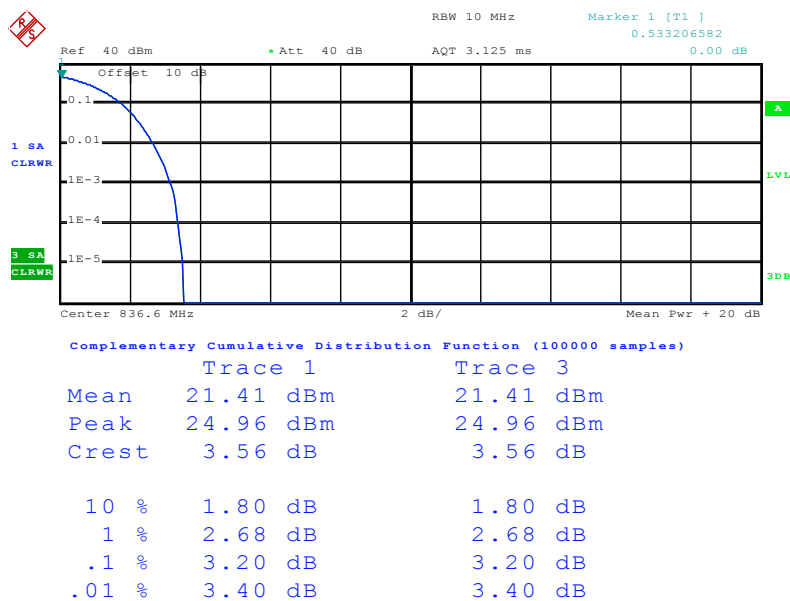


Date: 17.JUL.2015 20:40:52



### Middle channel

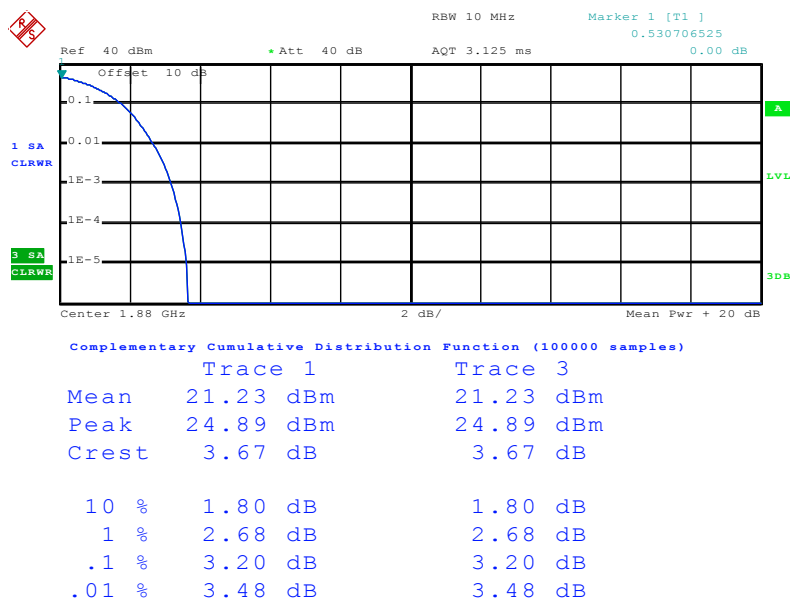
Modulation: UMTS 850 RMC



Date: 17.JUL.2015 20:43:35

### Middle channel

Modulation: UMTS1900 RMC

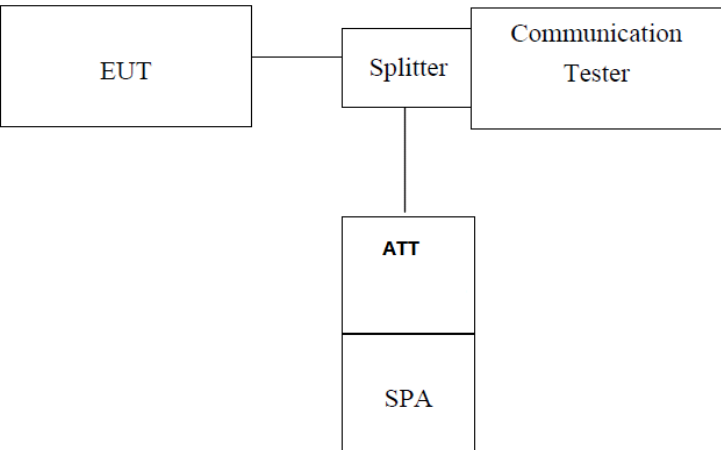


Date: 17.JUL.2015 20:42:07

## 6.8 Modulation Characteristic

According to FCC § 2.1047(d), Part 22H & 24E there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

## 6.9 Out of band emission at antenna terminals

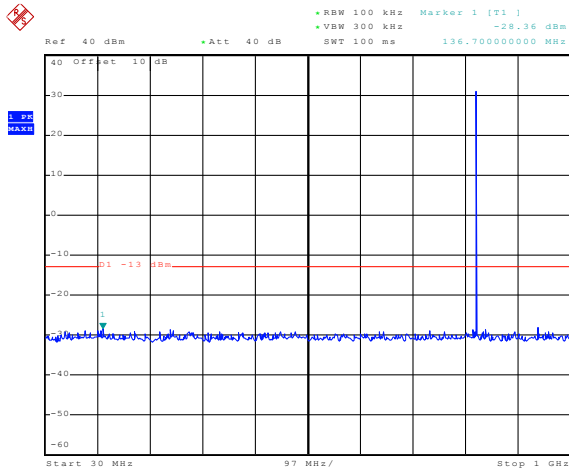
Test Requirement:	FCC part 22.917(a) and FCC part 24.238(a)
Test Method:	FCC part 2.1051
Limit:	-13dBm
Test setup:	 <p><i>Note: Measurement setup for testing on Antenna connector</i></p>
Test Procedure:	<ol style="list-style-type: none"> <li>5 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.</li> <li>6 The resolution bandwidth of the spectrum analyzer was set at 100 kHz when below 1GHz, 1MHz when above 1 GHz; sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.</li> <li>7 For the out of band: Set the RBW=100 kHz, VBW=300 kHz when below 1 GHz, RBW =1 MHz, VBW=3 MHz when above 1 GHz, Start=30MHz, Stop= 10th harmonic.</li> <li>8 Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.</li> </ol>
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Test plots as follows:

## Spurious emission

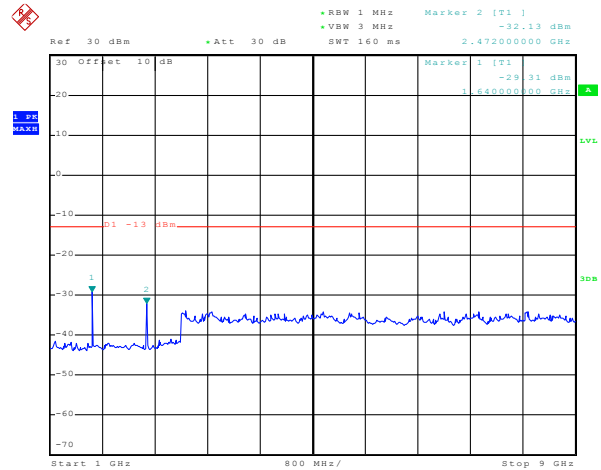
### GSM 850

#### Lowest Channel



Date: 7.JUL.2015 17:04:41

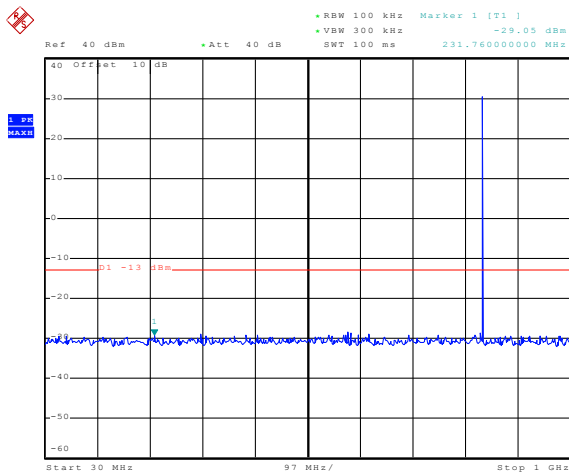
30MHz~1GHz



Date: 7.JUL.2015 17:00:50

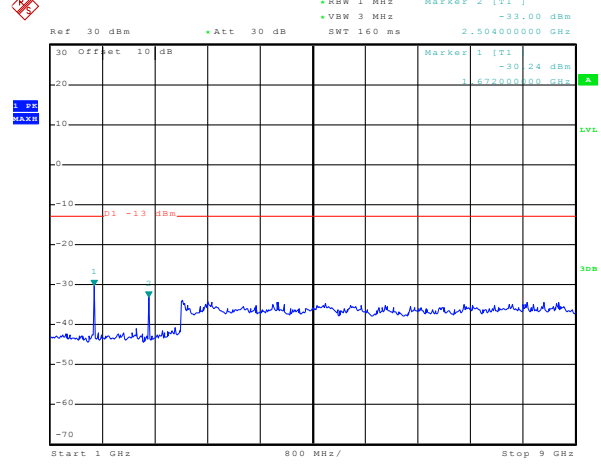
1GHz~9GHz

#### Middle channel



Date: 7.JUL.2015 17:05:02

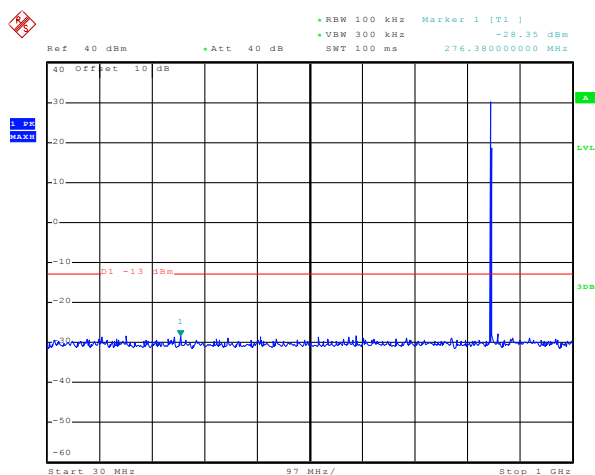
30MHz~1GHz



Date: 7.JUL.2015 17:01:15

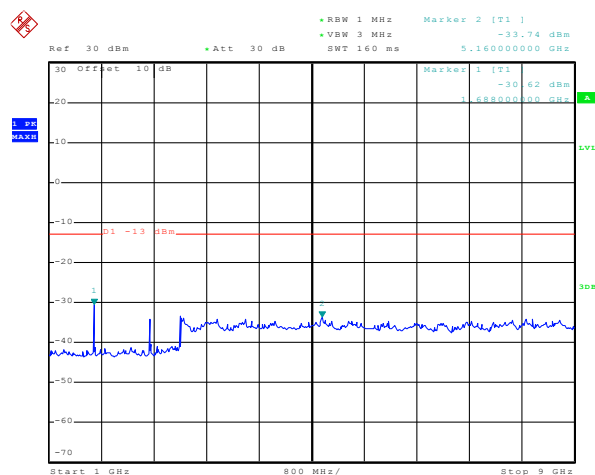
1GHz~9GHz

### Highest Channel



Date: 7..III..2015 17:05:37

30MHz~1GHz

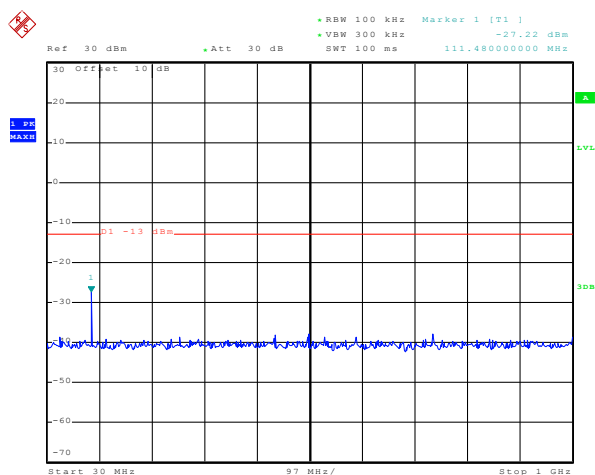


Date: 7..III..2015 17:02:10

1GHz~9GHz

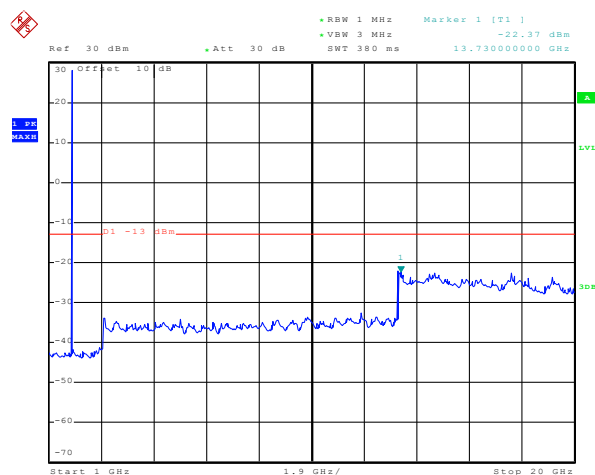
### PCS 1900

#### Lowest Channel



Date: 7..III..2015 16:56:47

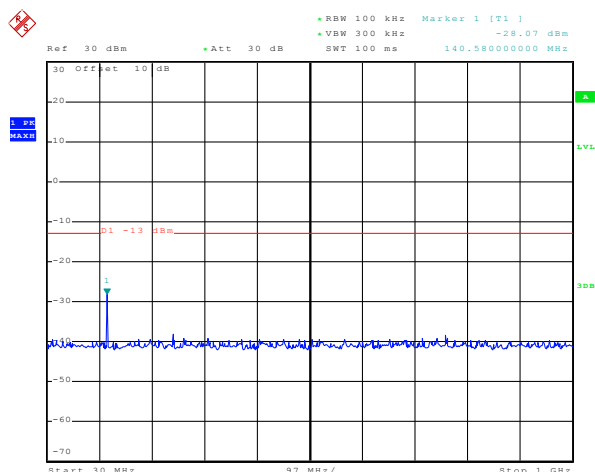
30MHz~1GHz



Date: 7..III..2015 16:59:26

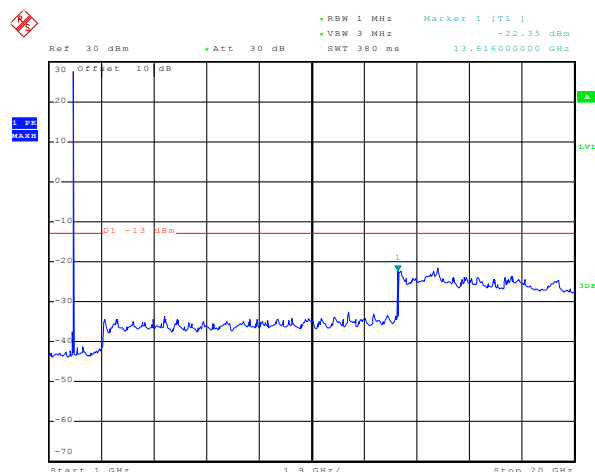
1GHz~20GHz

## Middle Channel



Date: 7..III..2015 16:57:04

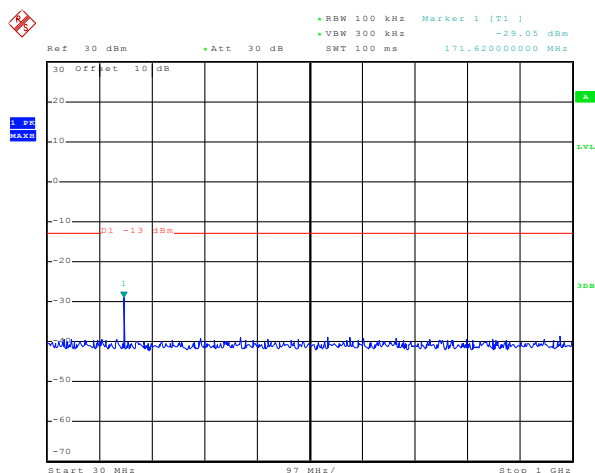
30MHz~1GHz



Date: 7..III..2015 16:58:56

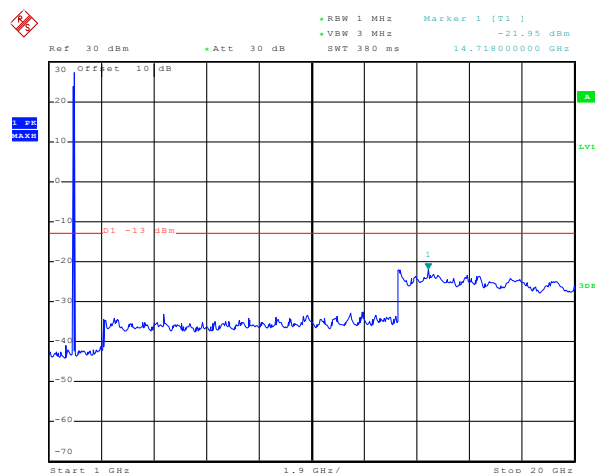
1GHz~20GHz

## Highest Channel



Date: 7..III..2015 16:57:25

30MHz~1GHz

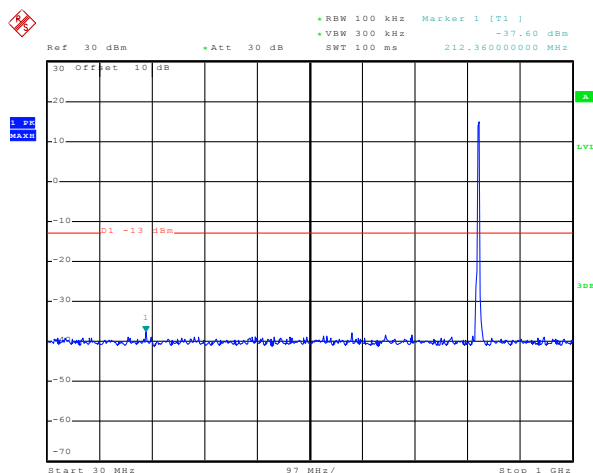


Date: 7..III..2015 16:58:32

1GHz~20GHz

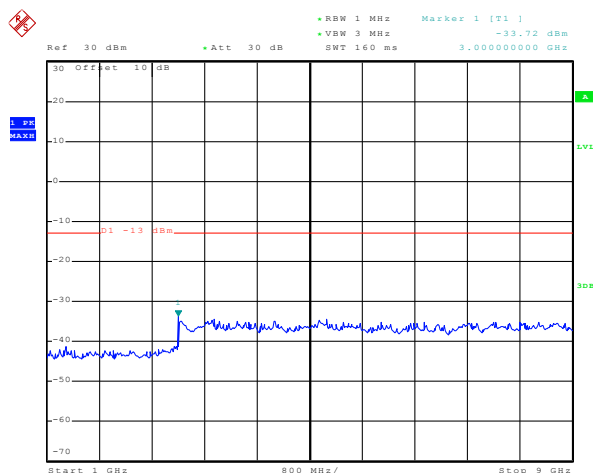
## UMTS 850 12.2k RMC

### Lowest Channel



Date: 7.JUL.2015 18:00:26

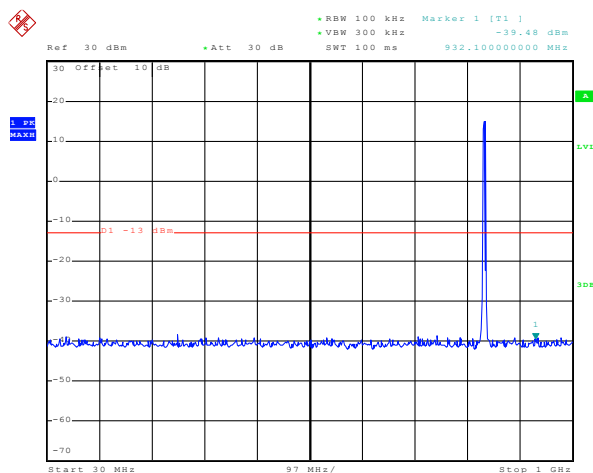
30MHz~1GHz



Date: 7.JUL.2015 18:01:11

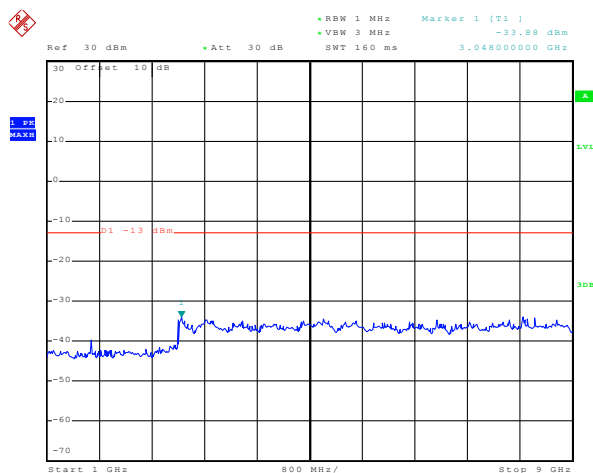
1GHz~9GHz

### Middle Channel



Date: 7.JUL.2015 17:59:31

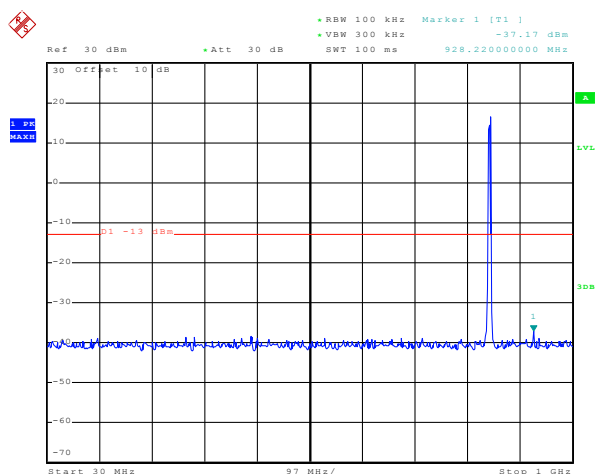
30MHz~1GHz



Date: 7.JUL.2015 18:02:11

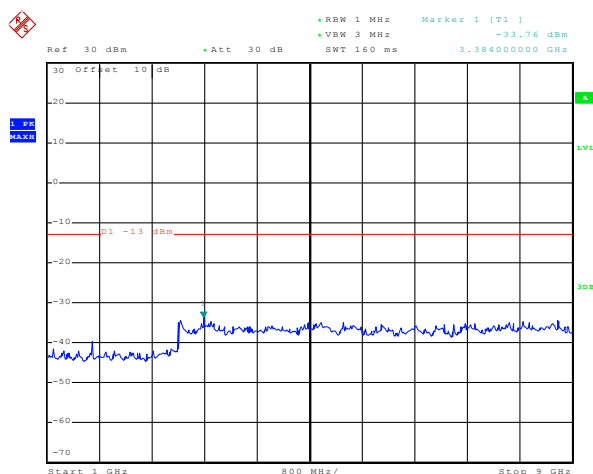
1GHz~9GHz

## Highest Channel



Date: 7..III..2015 17:59:05

30MHz~1GHz

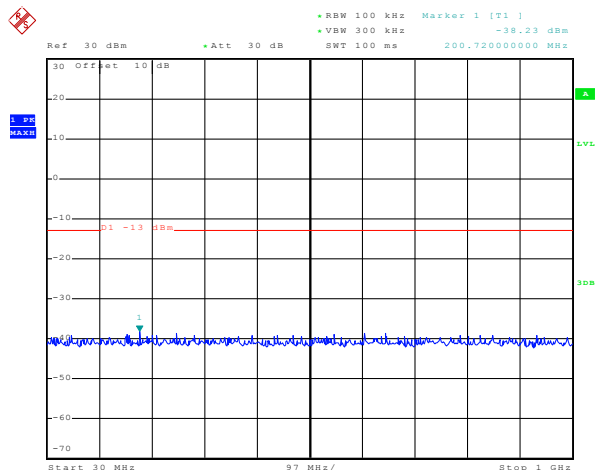


Date: 7..III..2015 18:02:28

1GHz~9GHz

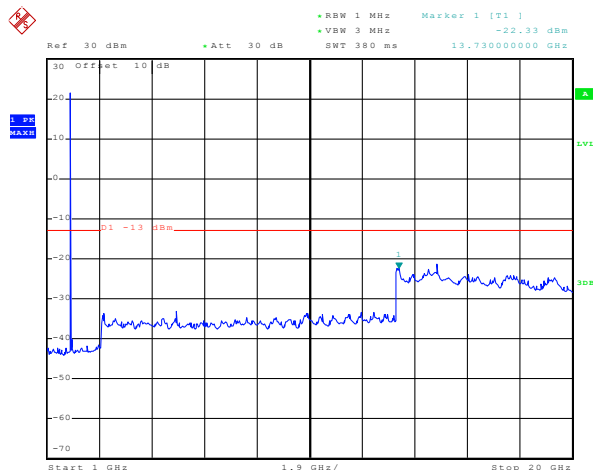
## UMTS 1900 12.2k RMC

### Lowest Channel



Date: 7..III..2015 17:43:20

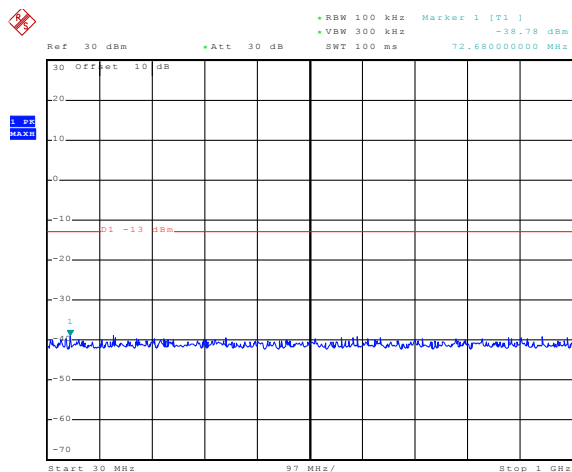
30MHz~1GHz



Date: 7..III..2015 17:45:35

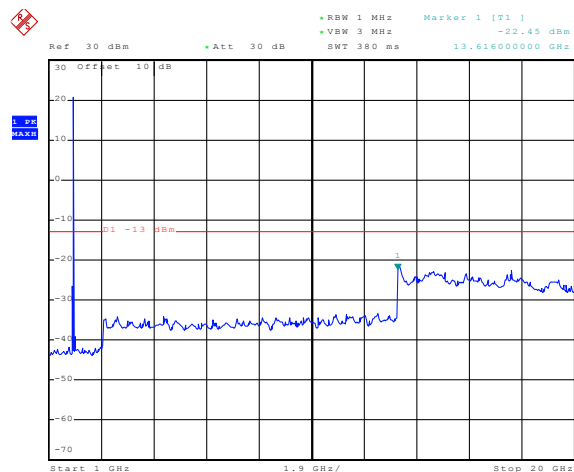
1GHz~20GHz

## Middle Channel



Date: 7.JUL.2015 17:43:34

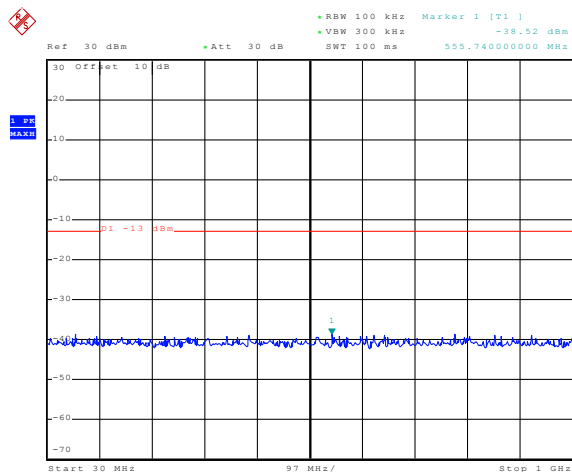
30MHz~1GHz



Date: 7.JUL.2015 17:45:09

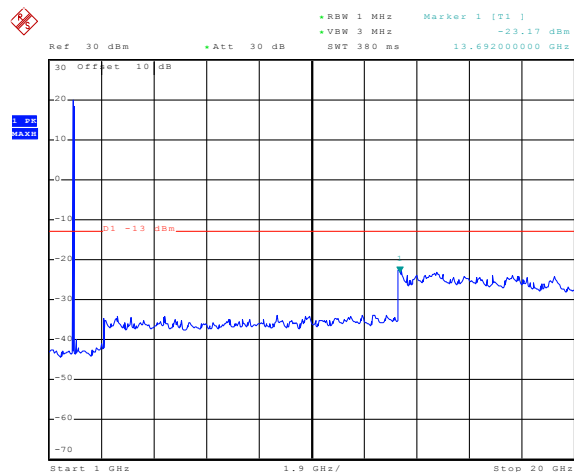
1GHz~20GHz

## Highest Channel



Date: 7.JUL.2015 17:44:00

30MHz~1GHz



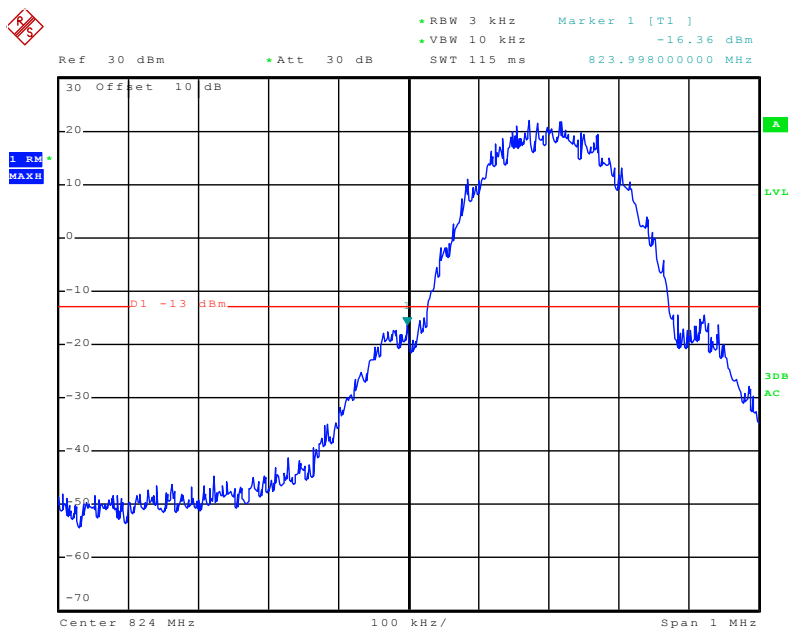
Date: 7.JUL.2015 17:44:37

1GHz~20GHz



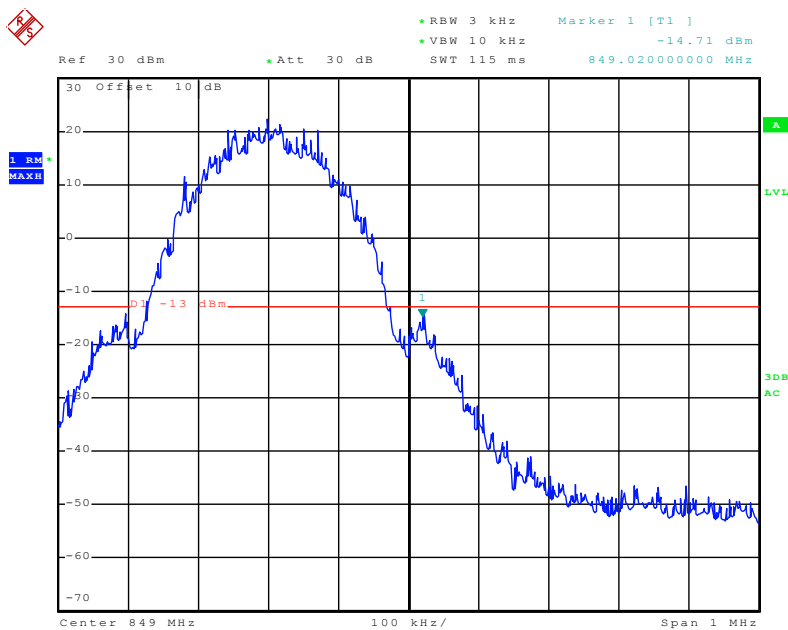
## Band edge emission

### GSM850



Date: 1.JUL.2015 17:22:53

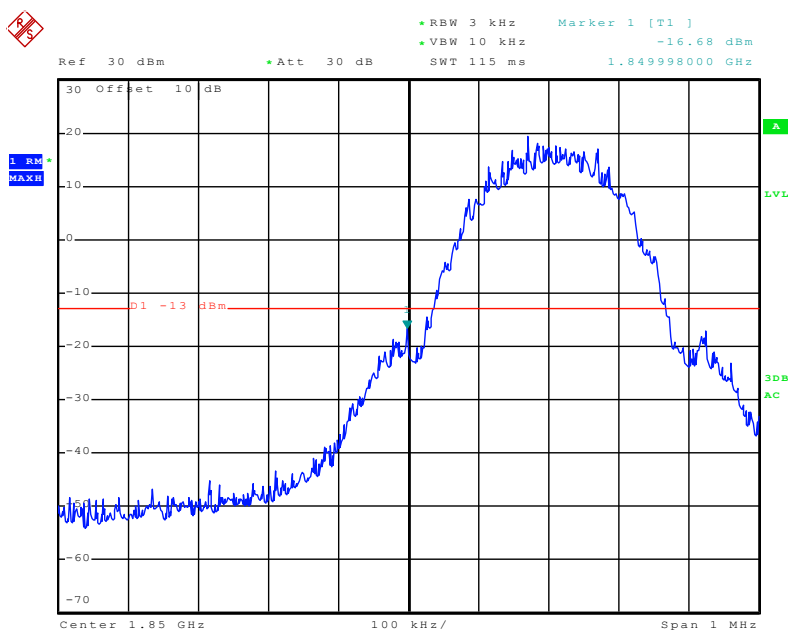
### Lowest channel



Date: 1.JUL.2015 17:23:25

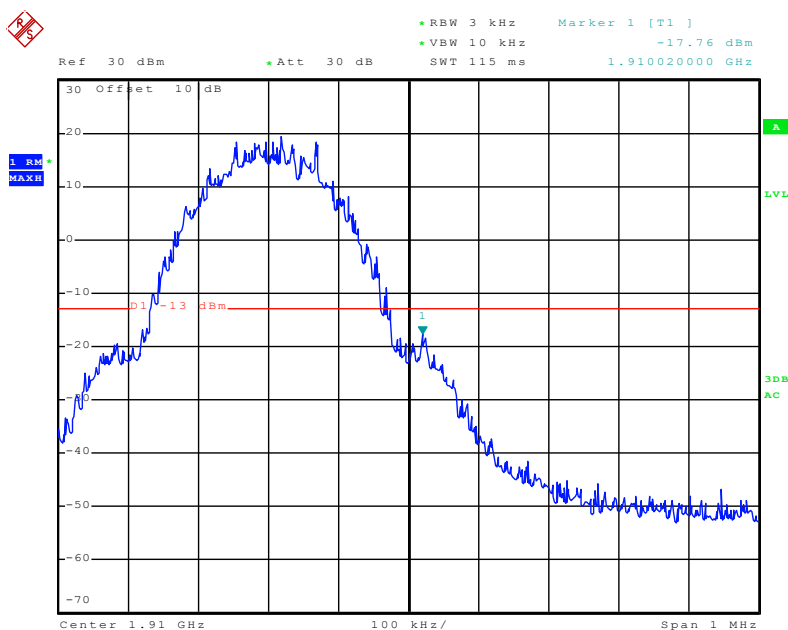
### Highest channel

## PCS1900



Date: 1.JUL.2015 17:30:03

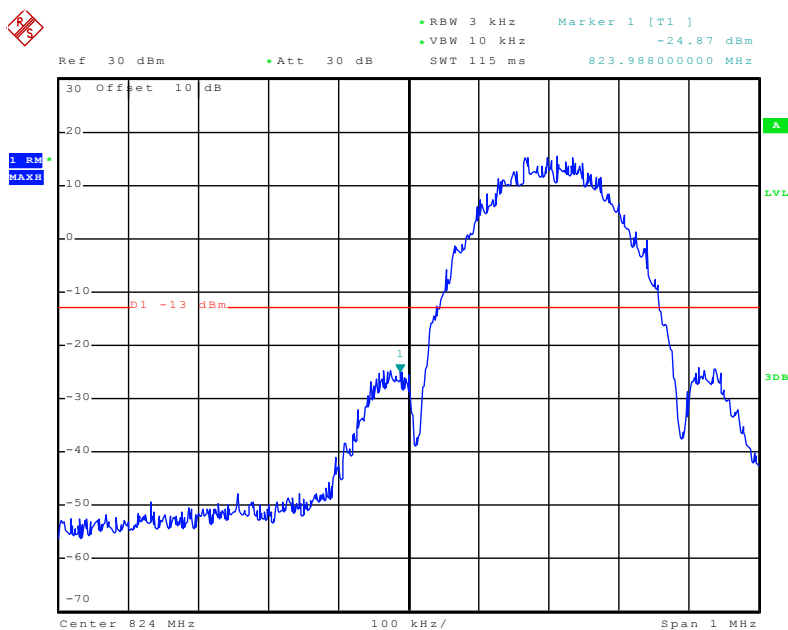
## Lowest channel



Date: 1.JUL.2015 17:31:14

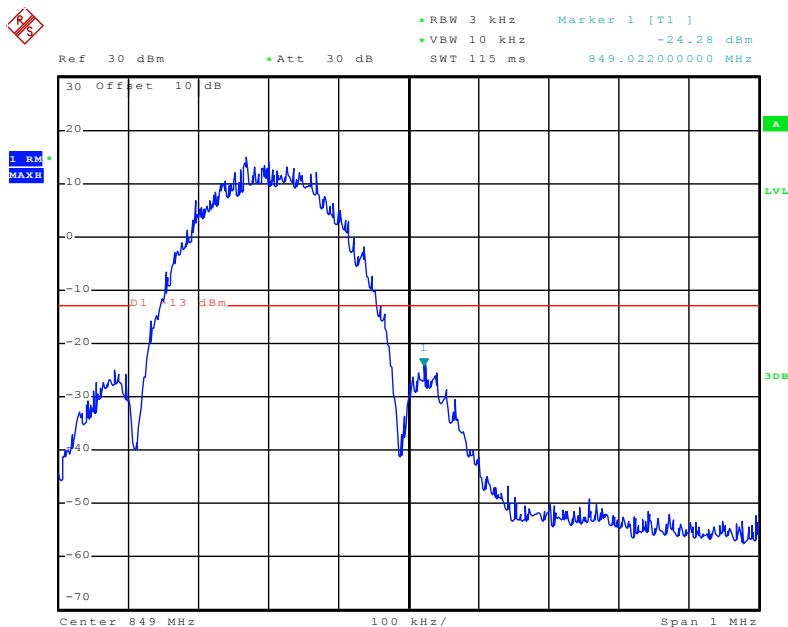
## Highest channel

## EGPRS850



Date: 7.JUL.2015 17:19:49

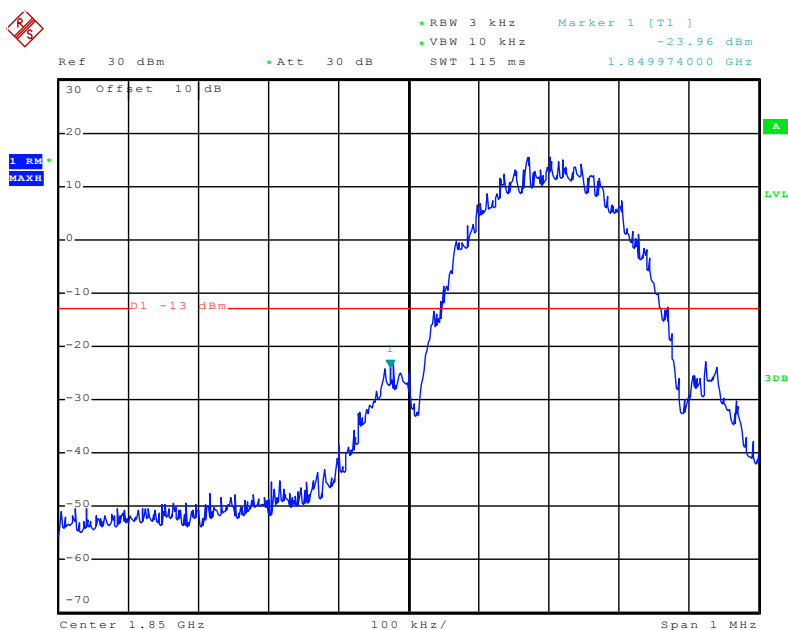
## Lowest channel



Date: 7.JUL.2015 17:20:53

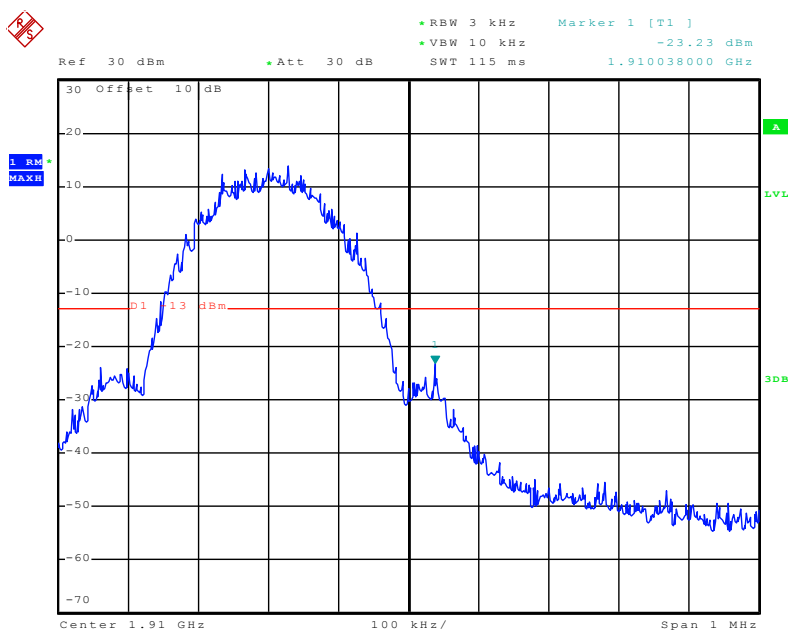
## Highest channel

## EGPRS1900



Date: 7.JUL.2015 17:08:42

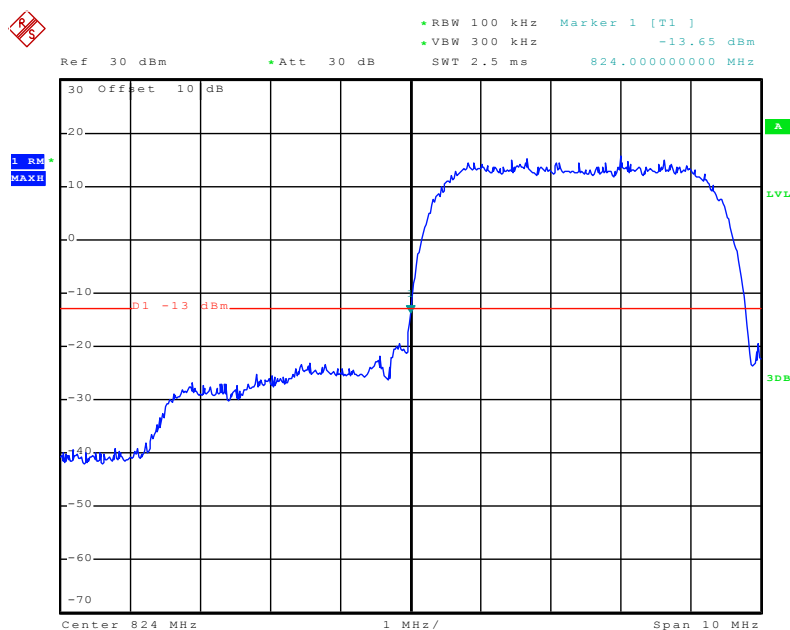
## Lowest channel



Date: 7.JUL.2015 17:09:23

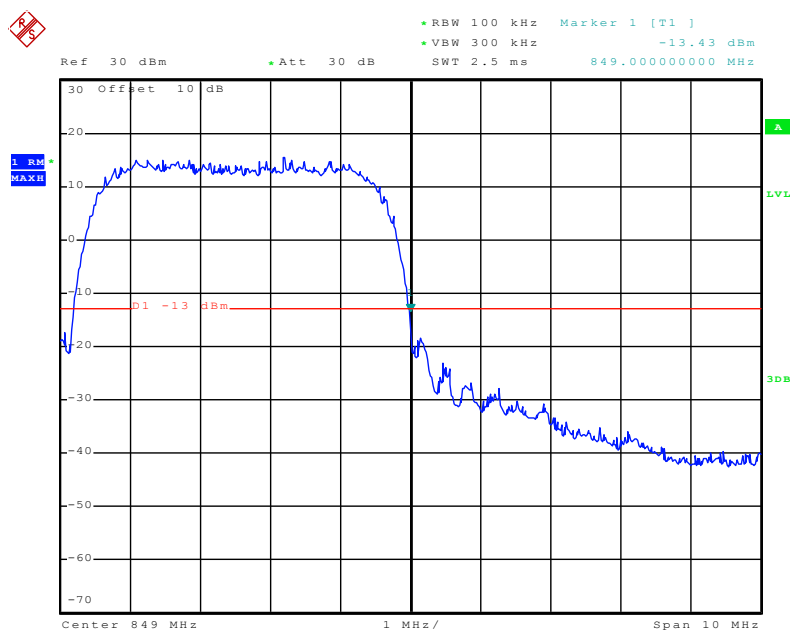
## Highest channel

## UMTS850 12.2k RMC



Date: 7.JUL.2015 17:50:54

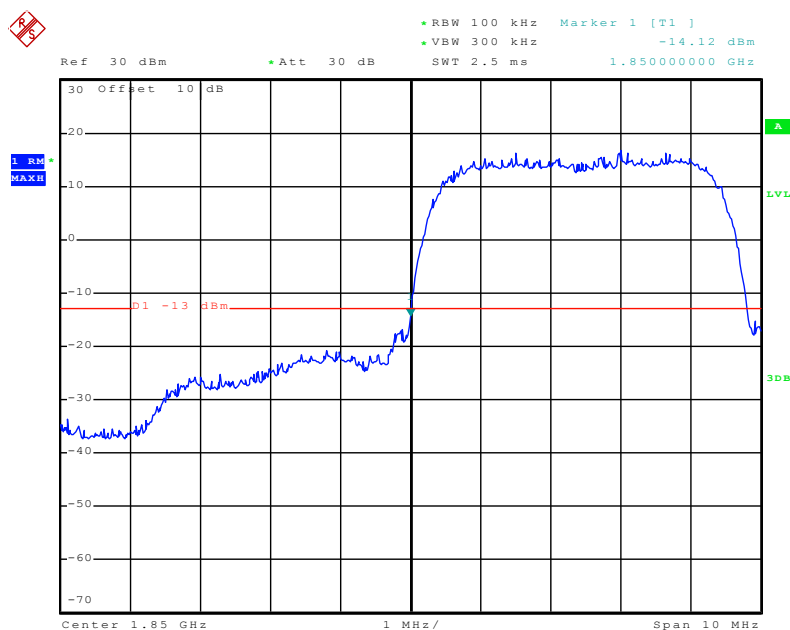
## Lowest channel



Date: 7.JUL.2015 17:51:26

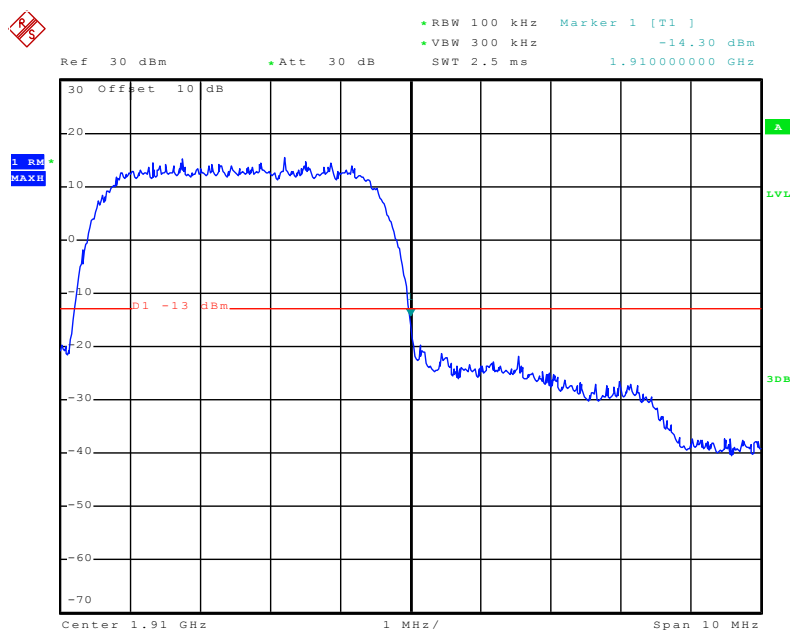
## Highest channel

## UMTS 1900 12.2k RMC



Date: 7.JUL.2015 17:33:41

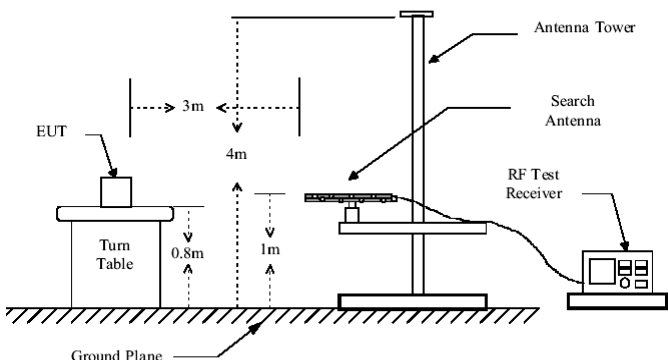
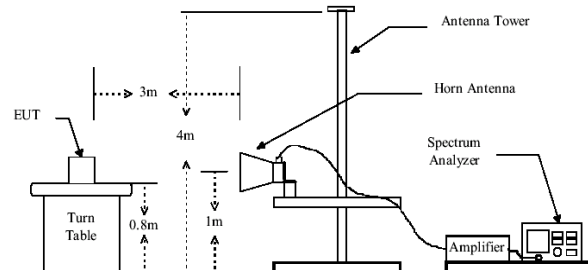
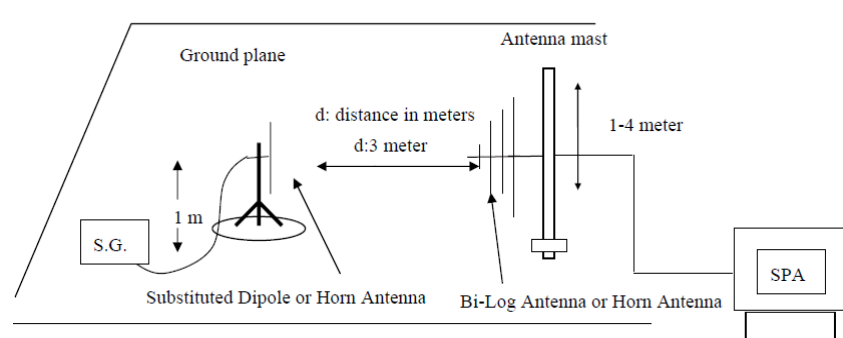
## Lowest channel



Date: 7.JUL.2015 17:34:44

## Highest channel

## 6.10 ERP, EIRP Measurement

Test Requirement:	FCC part 22.913(a) and FCC part 24.232(b)
Test Method:	FCC part 2.1046
Limit:	GSM850: 7W ERP PCS1900: 2W EIRP WCDMA Band V: 7W ERP WCDMA Band II: 2W EIRP
Test setup:	<p>Below 1GHz</p>  <p>Above 1GHz</p>  <p>Substituted method:</p> 

Test Procedure:	<ol style="list-style-type: none"> <li>1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.</li> <li>2. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.</li> <li>3. ERP in frequency band 824.2 –848.80.8MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:  <math display="block">\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}</math> </li> <li>4. EIRP in frequency band 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:  <math display="block">\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}</math> </li> <li>5. The worse case was relating to the conducted output power.</li> </ol>
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed (All three channels were tested, and just the worst case data were shown in the report.)

## Measurement Data (worst case)



EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
GSM850	251	H	V	26.15	38.45	Pass
			H	25.95		

EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
PCS1900	810	H	V	24.03	33.00	Pass
			H	23.72		

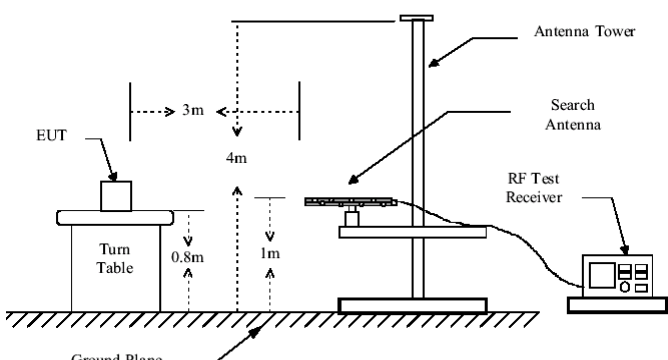
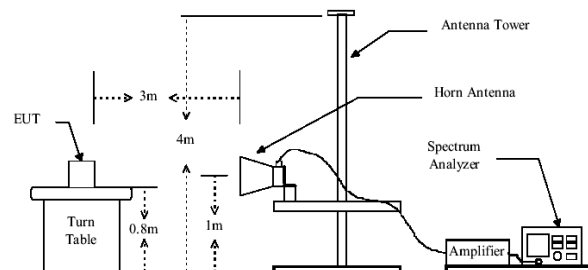
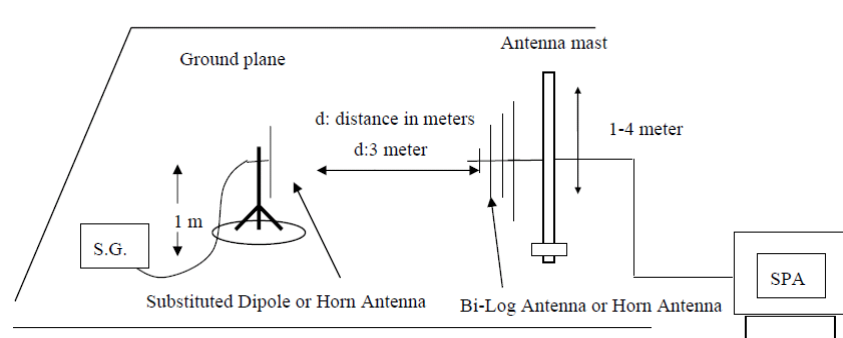
EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
EGPRS850	128	H	V	23.50	38.45	Pass
			H	23.64		

EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
EGPRS1900	512	H	V	23.42	33.00	Pass
			H	23.87		

EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
UMTS 850 12.2k RMC	4132	H	V	16.41	38.45	Pass
			H	17.9		

EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
UMTS 1900 12.2k RMC	9262	H	V	19.75	33.00	Pass
			H	18.69		

## 6.11 Field strength of spurious radiation measurement

Test Requirement:	FCC part 22.917(a) and FCC part 24.238(a)
Test Method:	FCC part 2.1053
Limit:	-13dBm
Test setup:	<p>Below 1GHz</p>  <p>Above 1GHz</p>  <p>Substituted method:</p> 
Test Procedure:	<ol style="list-style-type: none"> <li>1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.</li> <li>2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.</li> <li>3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.</li> </ol>

	4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. ERP / EIRP = S.G. output (dBm) + Antenna Gain(dB/dBi) – Cable Loss (dB)
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details. Based on the ERP/EIRP results, we selected GSM850, PCS1900, UMTS RMC 850 and UMTS RMC 1900 for Radiated spurious emission test, other modes were not test.
Test results:	Passed

Measurement Data (worst case)

Test mode:	GSM850		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1648.40	Vertical	-44.46	-13.00	Pass
2472.60	V	-22.81		
3296.80	V	-48.60		
4121.00	V	-47.23		
1648.40	Horizontal	-46.99	-13.00	Pass
2472.60	H	-23.64		
3296.80	H	-48.21		
4121.00	H	-46.32		
Test mode:	GSM850		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1673.20	Vertical	-46.58	-13.00	Pass
2509.80	V	-49.28		
3346.40	V	-48.13		
4183.00	V	-47.82		
1673.20	Horizontal	-48.61	-13.00	Pass
2509.80	H	-29.53		
3346.40	H	-49.43		
4183.00	H	-48.41		
Test mode:	GSM850		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1697.60	Vertical	-44.50	-13.00	Pass
2546.40	V	-47.28		
3395.20	V	-49.38		
4244.00	V	-47.27		
1697.60	Horizontal	-49.95	-13.00	Pass
2546.40	H	-50.51		
3395.20	H	-49.00		
4244.00	H	-47.36		

Remark:

1. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

Test mode:	PCS1900		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3700.40	Vertical	-47.62	-13.00	Pass
5550.60	V	-40.54		
7400.80	V	-38.76		
9251.00	V	-34.01		
3700.40	Horizontal	-48.11	-13.00	Pass
5550.60	H	-42.55		
7400.80	H	-38.59		
9251.00	H	-36.50		
Test mode:	PCS1900		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3760.00	Vertical	-48.33	-13.00	Pass
5640.00	V	-40.36		
7520.00	V	-38.86		
9400.00	V	-37.90		
3760.00	Horizontal	-48.71	-13.00	Pass
5640.00	H	-38.13		
7520.00	H	-38.97		
9400.00	H	-37.03		
Test mode:	PCS1900		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3819.60	Vertical	-48.58	-13.00	Pass
5729.40	V	-40.79		
7639.20	V	-39.17		
9549.00	V	-37.43		
3819.60	Horizontal	-48.95	-13.00	Pass
5729.40	H	-35.13		
7639.20	H	-39.01		
9549.00	H	-37.80		

**Remark:**

1. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

Test mode:	UMTS850 12.2k RMC		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1652.80	Vertical	-40.05	-13.00	Pass
2479.20	V	-45.87		
3305.60	V	-47.55		
4132.00	V	-44.93		
1652.80	Horizontal	-45.61	-13.00	Pass
2479.20	H	-38.12		
3305.60	H	-48.51		
4132.00	H	-46.71		
Test mode:	UMTS850 12.2k RMC		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1673.20	Vertical	-50.06	-13.00	Pass
2509.80	V	-45.86		
3346.40	V	-48.62		
4183.00	V	-45.54		
1673.20	Horizontal	-50.37	-13.00	Pass
2509.80	H	-39.74		
3346.40	H	-48.06		
4183.00	H	-46.18		
Test mode:	UMTS850 12.2k RMC		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1693.20	Vertical	-50.26	-13.00	Pass
2539.80	V	-45.83		
3386.40	V	-48.27		
4233.00	V	-45.46		
1693.20	Horizontal	-50.99	-13.00	Pass
2539.80	H	-49.97		
3386.40	H	-48.48		
4233.00	H	-46.78		

**Remark:**

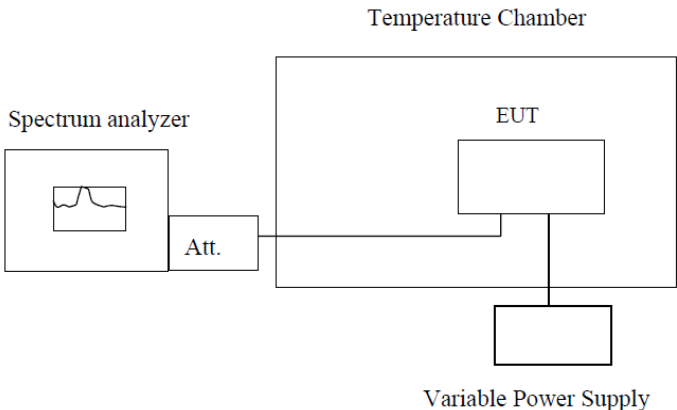
1. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

Test mode:	UMTS 1900 12.2k RMC		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3704.80	Vertical	-47.37	-13.00	Pass
5557.20	V	-43.82		
7409.60	V	-36.45		
9262.00	V	-37.55		
3704.80	Horizontal	-46.27	-13.00	Pass
5557.20	H	-39.51		
7409.60	H	-37.56		
9262.00	H	-36.75		
Test mode:	UMTS 1900 12.2k RMC		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3760.00	Vertical	-46.68	-13.00	Pass
5640.00	V	-42.02		
7520.00	V	-36.21		
9400.00	V	-37.64		
3760.00	Horizontal	-45.57	-13.00	Pass
5640.00	H	-42.95		
7520.00	H	-38.64		
9400.00	H	-36.02		
Test mode:	UMTS 1900 12.2k RMC		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3815.20	Vertical	-48.04	-13.00	Pass
5722.80	V	-42.23		
7630.40	V	-38.16		
9538.00	V	-35.56		
3815.20	Horizontal	-44.46	-13.00	Pass
5722.80	H	-38.87		
7630.40	H	-37.12		
9538.00	H	-36.97		

**Remark:**

- The emission levels of below 1 GHz are very lower than the limit and not show in test report.

## 6.12 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part 2.1055(a)(1)(b)
Test Method:	FCC Part 2.1055(a)(1)(b)
Limit:	2.5 ppm
Test setup:	 <p><b>Note :</b> Measurement setup for testing on Antenna connector</p>
Test procedure:	<ol style="list-style-type: none"> <li>1. The equipment under test was connected to an external DC power supply and input rated voltage.</li> <li>2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators.</li> <li>3. The EUT was placed inside the temperature chamber.</li> <li>4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency.</li> <li>5. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.</li> <li>6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached</li> </ol>
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	All three channels of all modulations have been tested, but only the worst channel and the worst modulation show in this test item.



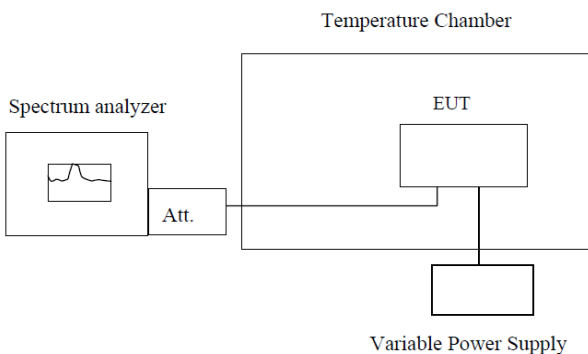
Measurement Data:

Reference Frequency: GSM850 Middle channel=190 channel=836.6MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	189	0.225914	2.5	Pass
	-20	155	0.185274		
	-10	144	0.172125		
	0	137	0.163758		
	10	92	0.109969		
	20	99	0.118336		
	30	101	0.120727		
	40	115	0.137461		
	50	132	0.157781		
Reference Frequency: PCS1900 Middle channel=661 channel=1880MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	182	0.096809	2.5	Pass
	-20	92	0.048936		
	-10	151	0.080319		
	0	156	0.082979		
	10	137	0.072872		
	20	142	0.075532		
	30	92	0.048936		
	40	104	0.055319		
	50	109	0.057979		

Reference Frequency: EGPRS850 Middle channel=190 channel=836.6MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	177	0.211571	2.5	Pass
	-20	122	0.145828		
	-10	133	0.158977		
	0	104	0.124313		
	10	92	0.109969		
	20	106	0.126703		
	30	91	0.108774		
	40	62	0.074109		
	50	74	0.088453		
Reference Frequency: EGPRS 1900 Middle channel=661 channel=1880MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	168	0.089362	2.5	Pass
	-20	72	0.038298		
	-10	91	0.048404		
	0	73	0.038830		
	10	108	0.057447		
	20	91	0.048404		
	30	82	0.043617		
	40	69	0.036702		
	50	62	0.032979		

Reference Frequency: UMTS850 12.2k RMC Middle channel=4183 channel=836.6MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	172	0.205594	2.5	Pass
	-20	130	0.155391		
	-10	106	0.126703		
	0	91	0.108774		
	10	72	0.086063		
	20	104	0.124313		
	30	108	0.129094		
	40	82	0.098016		
	50	83	0.099211		
Reference Frequency: UMTS1900 12.2k RMC Middle channel=9400 channel=1880MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	167	0.088830	2.5	Pass
	-20	72	0.038298		
	-10	91	0.048404		
	0	78	0.041489		
	10	82	0.043617		
	20	66	0.035106		
	30	92	0.048936		
	40	71	0.037766		
	50	99	0.052660		

## 6.13 Frequency stability V.S. Voltage measurement

Test Requirement:	FCC Part 2.1055(d)(1)(2)
Test Method:	FCC Part 2.1055(d)(1)(2)
Limit:	2.5ppm
Test setup:	 <p><b>Note :</b> Measurement setup for testing on Antenna connector</p>
Test procedure:	<ol style="list-style-type: none"> <li>1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage.</li> <li>2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.</li> <li>3. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.</li> </ol>
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details, and all channels have been tested, only shows the worst channel data in this report.
Test results:	Passed

Measurement Data (the worst channel):

Reference Frequency: GSM850 Middle channel=190 channel=836.6MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	102	0.121922	2.5	Pass
	3.70	61	0.072914		
	3.40	91	0.108774		
Reference Frequency: PCS1900 Middle channel=661 channel=1880MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	92	0.048936	2.5	Pass
	3.70	53	0.028191		
	3.40	61	0.032447		
Reference Frequency: EGPRS 850 Middle channel= 190 channel=836.6MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	88	0.105188	2.5	Pass
	3.70	66	0.078891		
	3.40	41	0.049008		
Reference Frequency: EGPRS 1900 Middle channel= 661 channel=1880MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	82	0.043617	2.5	Pass
	3.70	61	0.032447		
	3.40	79	0.042021		

Reference Frequency: UMTS 850 12.2k RMC Middle channel=4183 channel=836.6MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	92	0.109969	2.5	Pass
	3.70	71	0.084867		
	3.40	53	0.063352		
Reference Frequency: UMTS 1900 12.2k RMC Middle channel=9400 channel=1880MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	98	0.052128	2.5	Pass
	3.70	71	0.037766		
	3.40	87	0.046277		