

FCC REPORT (Mobile Phone)

Applicant: Five Technology Co., Ltd.

Address of Applicant: 502,North 5/F,2# Vision Business Park,Tech.South Rd.,
High-tech Park, Shenzhen, P.R.C. 518057.

Equipment Under Test (EUT)

Product Name: 8 Inch MID with WiFi/BT/GPS/3G

Model No.: F208

FCC ID: RDX-FNFIFIVEMX

Applicable standards: FCC CFR Title 47 Part 2: 2011
FCC CFR Title 47 Part22 Subpart H: 2011
FCC CFR Title 47 Part24 Subpart E: 2011

Date of sample receipt: 30 Nov., 2012

Date of Test: 04-13 Dec.,2012

Date of report issued: 17 Dec.,2012

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.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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2. Version

Version No.	Date	Description
00	17 Dec.,2012	Original

Prepared By:



Report Clerk

Date:

17 Dec.,2012

Check By:



Project Engineer

Date:

17 Dec.,2012

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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:	Five Technology Co., Ltd.
Address of Applicant:	502,North 5/F,2# Vision Business Park,Tech.South Rd., High-tech Park,Shenzhen, P.R.C. 518057.
Manufacturer:	Five Technology Co., Ltd.
Address of Manufacturer:	502,North 5/F,2# Vision Business Park,Tech.South Rd., High-tech Park,Shenzhen, P.R.C. 518057.

5.2 General Description of E.U.T.

Product Name:	8 Inch MID with WiFi/BT/GPS/3G
Model No.:	F208
Operation Frequency range:	EGPRS/GPRS 850: 824.20MHz-848.80MHz EGPRS/GPRS 1900: 1850.20MHz-1909.80MHz HSDPA/RMC UMTS850:826.4MHz-846.6MHz
Modulation Type:	GPRS:GMSK; EGPRS:8PSK;HSDPA/RMC:WCDMA
Software Version:	F208_FW_PERU_411_V1.0
Hardware Version:	V 2.0
Antenna type:	PIFA Antenna
Antenna gain:	GPRS/EGPRS 850: 0.5 dBi GPRS/EGPRS 1900: 0.5 dBi HSDPA/RMC: 0.5 dBi
AC adapter:	Input:100-240V AC,50/60Hz 0.5A Output: DC 5V/2A
Power supply:	Rechargeable Li-ion Battery DC3.7V/4200mAh

Operation Frequency List:

EGPRS/GPRS 850		EGPRS/GPRS 1900	
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

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:

EGPRS/GPRS 850			EGPRS/GPRS1900		
	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
HSDPA/RMC					
	Channel	Frequency(MHz)			
Lowest channel	4132	826.40			
Middle channel	4180	836.00			
Highest channel	4233	846.60			

5.3 Test mode:

Data Communicate mode (GPRS850)	Keep the EUT in data communicating mode on GPRS850 band.
Data Communicate mode (EGPRS850)	Keep the EUT in data communicating mode on EGPRS850 band.
Data Communicate mode (GPRS1900)	Keep the EUT in data communicating mode on GPRS1900 band.
Data Communicate mode (EGPRS1900)	Keep the EUT in data communicating mode on EGPRS1900 band.
Data Communicate mode (HSDPA UMTS850)	Keep the EUT in data communicating mode on HSDPA in UMTS850(sub-test1~sub-test4)
Data Communicate mode (RMC UMTS850)	Keep the EUT in data communicating mode on RMC in UMTS850(12.2kbps,64kbps,144kbps&384kbps)
Remarks: Pre-tested all Modes, and found the GPRS850, GPRS1900 and HSDPA mode were the worst case modes. UMTS850 all sub-tests were pre-tested, and find sub-test 1 and 12.2 kbps RMC were the worst case, so all test items were test on these modes, 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 Test Facility

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

● **FCC —Registration No.:** 817957

China Certification & Inspection Services Co., Ltd., Shenzhen 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 out files. Registration 817957, February 27, 2012

● **Industry Canada (IC)**

The 3m Semi-anechoic chamber of China Certification & Inspection Services Co., Ltd. Has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

5.7 Test Location

All tests were performed at:

China Certification & Inspection Services Co., Ltd.
 Address: 1st Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China
 Tel: 0755-23118282
 Fax: 0755-23116366

5.8 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	3m Semi- Anechoic Chamber	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	June 09 2012	June 08 2013
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	June 04 2012	June 03 2013
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	May 30 2012	May 30 2013
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
5	Coaxial Cable	CCIS	N/A	CCIS0016	Apr. 01 2012	Mar. 31 2013
6	Coaxial Cable	CCIS	N/A	CCIS0017	Apr. 01 2012	Mar. 31 2013
7	Coaxial cable	CCIS	N/A	CCIS0018	Apr. 01 2012	Mar. 31 2013
8	Coaxial Cable	CCIS	N/A	CCIS0019	Apr. 01 2012	Mar. 31 2013
9	Coaxial Cable	CCIS	N/A	CCIS0087	Apr. 01 2012	Mar. 31 2013
10	Amplifier(10kHz-1.3GHz)	HP	8447D	CCIS0003	Apr. 01 2012	Mar. 31 2013
11	Amplifier(1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	June 09 2012	June 08 2013
12	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	Apr. 01 2012	Mar. 31 2013
13	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2012	Mar. 29 2013
14	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A
15	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A
16	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP	CCIS0023	May. 29 2012	May. 28 2013
17	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	Apr 01 2012	Mar. 31 2013
18	Loop antenna	Laplace instrument	RF300	EMC0701	Aug. 12 2012	Aug. 11 2013
19	CMU200	RoHDE&SCHWARZ	1100.0008.02	CCIS0069	May. 29 2012	May. 29 2013

6. System test configuration

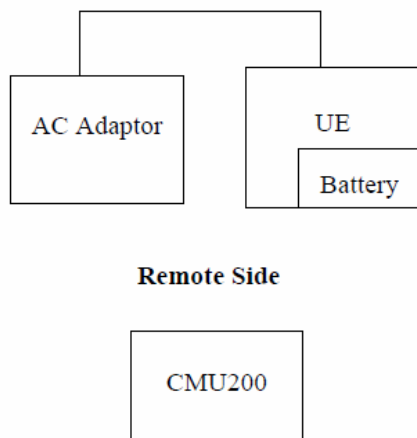
6.1 EUT Configuration

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 (GPSR850, GPRS1900 and HSDPA) with power adaptor, earphone and Data cable. The worst-case H mode for GPSR850 band, GPRS1900 band. HSDPA UMTS850 band

6.5 Conducted Output Power

Test Requirement:	FCC part22.913(a) and FCC part24.232(b)
Test Method:	FCC part2.1046
Limit:	EGPRS/GPRS850 7W EGPRS/GRPS1900 2W HSDPA/RMC UMTS850 7W
Test setup:	EUT ATT Communication Tester <i>Note: Measurement setup for testing on Antenna connector</i>
Test Procedure:	The transmitter output was connected to a calibrated attenuator, the other end of which was connected to the CMU200. Transmitter output was read off the CMU200 in dBm.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

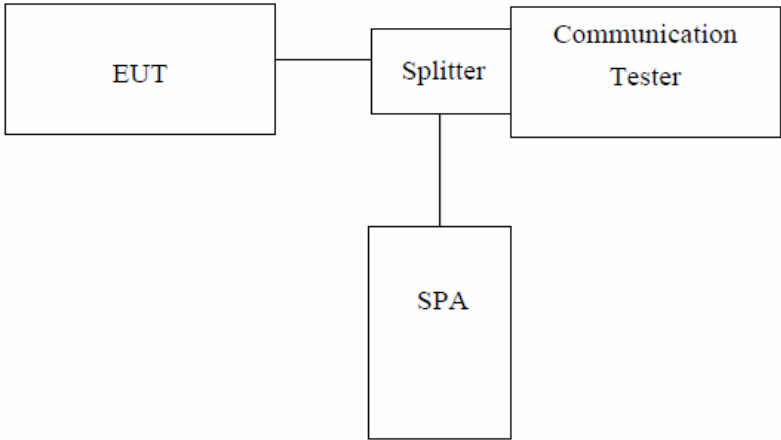
Measurement Data

EUT Mode	Channel	Frequency (MHz)	PK power (dBm)	Limit(dBm)	Result
GPRS 850 (1 Uplink slot)	128	824.20	32.68	38.45	Pass
	190	836.60	32.75		
	251	848.80	32.88		
GPRS 1900 (1 Uplink slot)	512	1850.20	29.37	33.00	Pass
	661	1880.00	29.27		
	810	1909.80	29.61		
GPRS 850 (2 Uplink slots)	128	824.20	32.16	38.45	Pass
	190	836.60	32.14		
	251	848.80	32.20		
GPRS 1900 (2 Uplink slots)	512	1850.20	28.56	33.00	Pass
	661	1880.00	28.51		
	810	1909.80	28.85		
GPRS 850 (3 Uplink slots)	128	824.20	30.53	38.45	Pass
	190	836.60	30.46		
	251	848.80	30.49		
GPRS 1900 (3 Uplink slots)	512	1850.20	26.72	33.00	Pass
	661	1880.00	26.66		
	810	1909.80	27.09		
GPRS 850 (4 Uplink slots)	128	824.20	29.48	38.45	Pass
	190	836.60	29.40		
	251	848.80	29.45		
GPRS 1900 (4 Uplink slots)	512	1850.20	25.71	33.00	Pass
	661	1880.00	25.61		
	810	1909.80	26.05		

EUT Mode	Channel	Frequency (MHz)	PK power (dBm)	Limit(dBm)	Result
EGPRS 850 (1 Uplink slot)	128.00	824.20	27.25	38.45	Pass
	190.00	836.60	27.24		
	251.00	848.80	27.11		
EGPRS 1900 (1 Uplink slot)	512.00	1850.20	25.05	33.00	Pass
	661.00	1880.00	25.02		
	810.00	1909.80	25.08		
EGPRS 850 (2 Uplink slots)	128.00	824.20	26.09	38.45	Pass
	190.00	836.60	26.16		
	251.00	848.80	26.10		
EGPRS 1900 (2 Uplink slots)	512.00	1850.20	23.94	33.00	Pass
	661.00	1880.00	23.81		
	810.00	1909.80	23.98		
EGPRS 850 (3 Uplink slots)	128.00	824.20	24.06	38.45	Pass
	190.00	836.60	24.11		
	251.00	848.80	23.90		
EGPRS 1900 (3 Uplink slots)	512.00	1850.20	21.48	33.00	Pass
	661.00	1880.00	21.68		
	810.00	1909.80	21.50		
EGPRS 850 (4 Uplink slots)	128.00	824.20	22.65	38.45	Pass
	190.00	836.60	22.73		
	251.00	848.80	22.56		
EGPRS 1900 (4 Uplink slots)	512.00	1850.20	20.23	33.00	Pass
	661.00	1880.00	20.34		
	810.00	1909.80	20.47		

EUT Mode		Channel	Frequency (MHz)	PK power (dBm)	Limit(dBm)	Result
HSDPA UMTS850	Subtest 1*	4132	826.40	26.03	38.45	Pass
		4180	836.00	26.03		
		4233	846.60	26.04		
	Subtest 2	4132	826.40	25.96		
		4180	836.00	25.95		
		4233	846.60	26.00		
	Subtest 3	4132	826.40	25.96		
		4180	836.00	25.62		
		4233	846.60	25.63		
	Subtest 4	4132	826.40	25.97		
		4180	836.00	25.96		
		4233	846.60	25.91		
RMC UMTS850	12.2kbps*	4132	826.40	25.89	38.45	Pass
		4180	836.00	25.79		
		4233	846.60	25.62		
	64kbps	4132	826.40	25.12		
		4180	836.00	25.15		
		4233	846.60	25.42		
	144kbps	4132	826.40	25.52		
		4180	836.00	25.45		
		4233	846.60	25.42		
	384kbps	4132	826.40	25.21		
		4180	836.00	25.25		
		4233	846.60	25.34		

6.6 Occupy Bandwidth

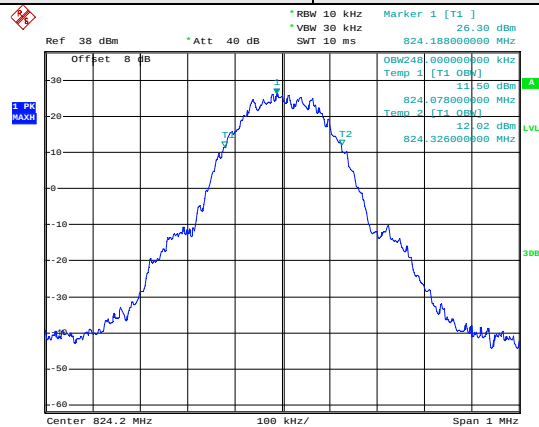
Test Requirement:	FCC part22.913(a) and FCC part24.232(b)
Test Method:	FCC part2.1049
Test setup:	 <i>Note: Measurement setup for testing on Antenna connector</i>
Test Procedure:	1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer 2. RBW was set to about 1% of emission 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 Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data

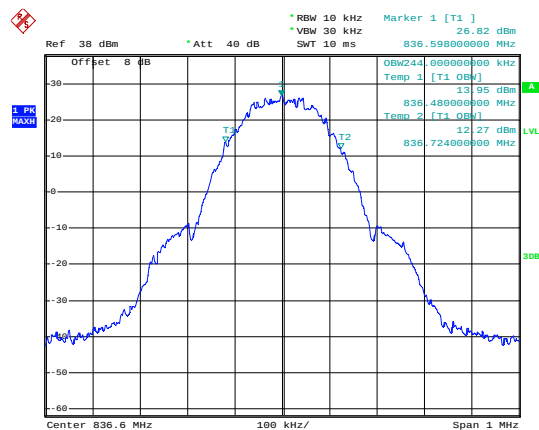
EUT Mode	Channel	Frequency (MHz)	99% Occupy bandwidth (kHz)	-26dB bandwidth (kHz)
GPRS 850	128	824.20	248	326
	190	836.60	244	316
	251	848.80	244	312
GPRS 1900	512	1850.20	250	324
	661	1880.00	248	314
	810	1909.80	246	310
EGPRS 850	128	824.20	246	326
	190	836.60	242	302
	251	848.80	238	312
EGPRS 1900	512	1850.20	240	312
	661	1880.00	242	310
	810	1909.80	242	294
UMTS850 12.2k RMC	4132	824.40	4180	4660
	4180	836.00	4180	4700
	4233	846.60	4180	4700
UMTS850 HSDPA Sub-test 1	4132	824.40	4160	4680
	4180	836.00	4180	4700
	4233	846.60	4160	4700

Test plot as follows:

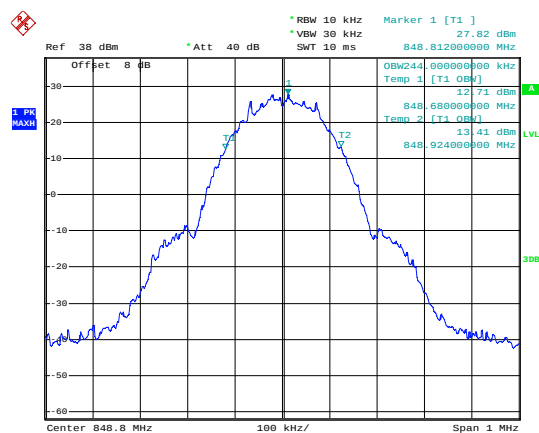
Test Item:	99% Occupy bandwidth	Test Mode:	GPRS850
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Lowest channel

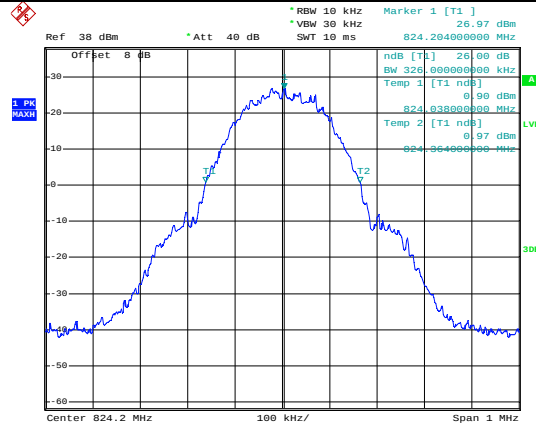


Middle channel

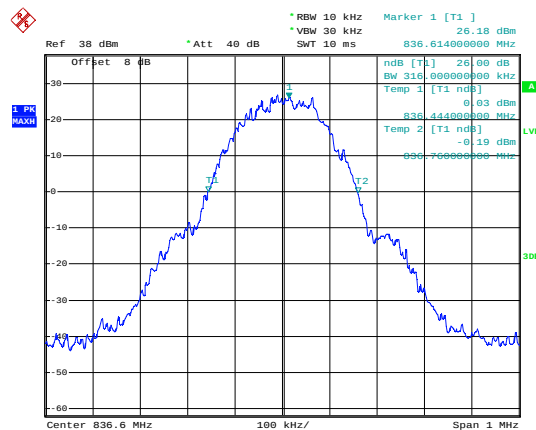


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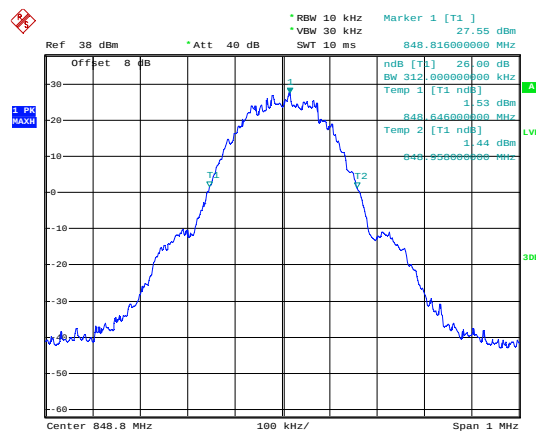
Test Item:	-26dB bandwidth	Test Mode:	GPRS850
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Lowest channel

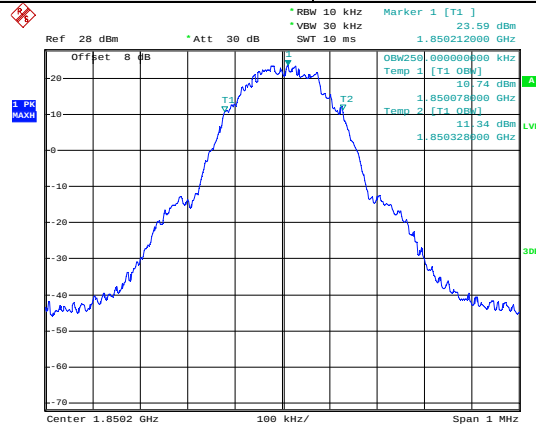


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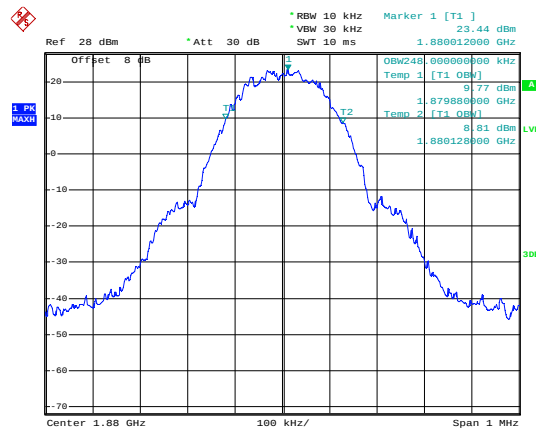


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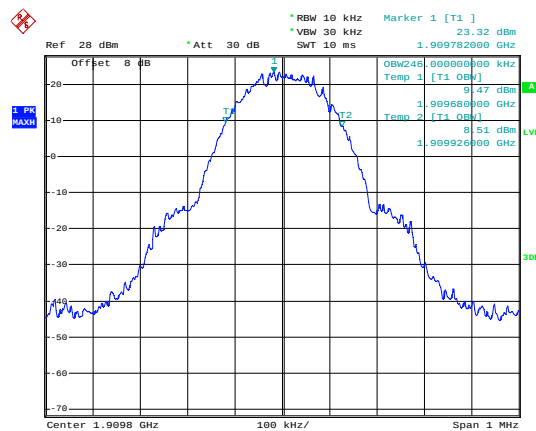
Test Item:	99% Occupy bandwidth	Test Mode:	GPRS 1900
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Lowest channel

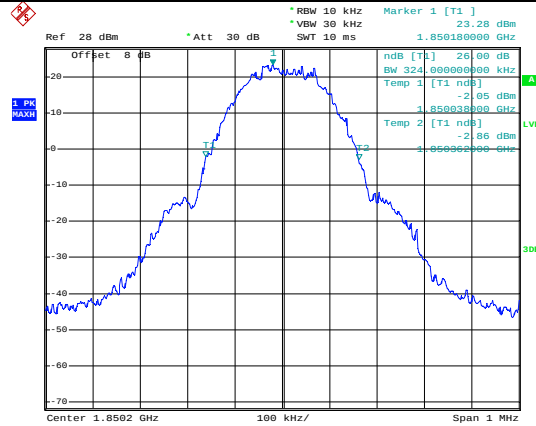


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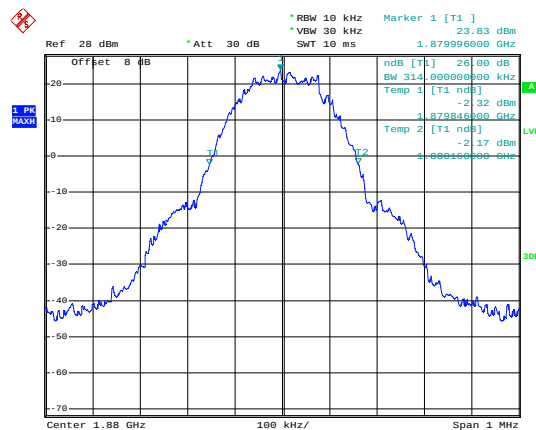


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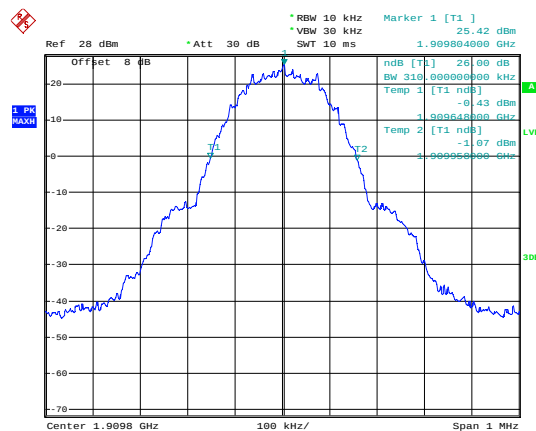
Test Item:	-26dB bandwidth	Test Mode:	GPRS 1900
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Lowest channel

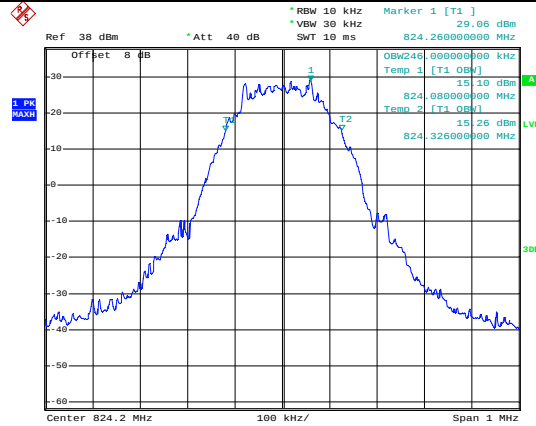


Middle channel

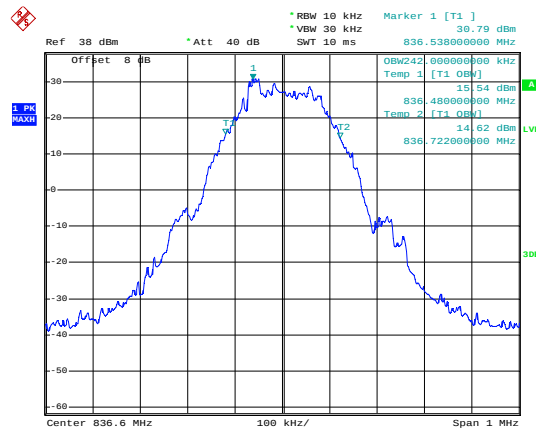


Highest channel

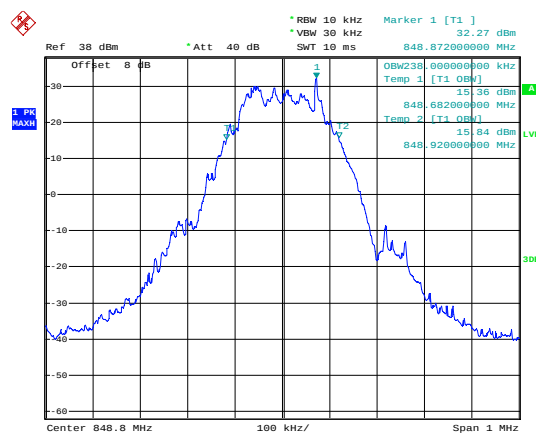
Test Item:	99% Occupy bandwidth	Test Mode:	EGPRS850
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Lowest channel

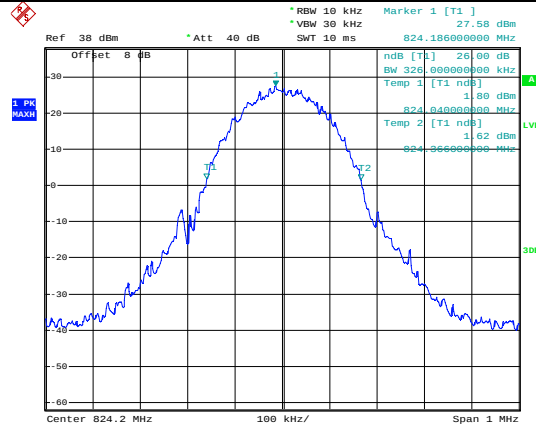


Middle channel

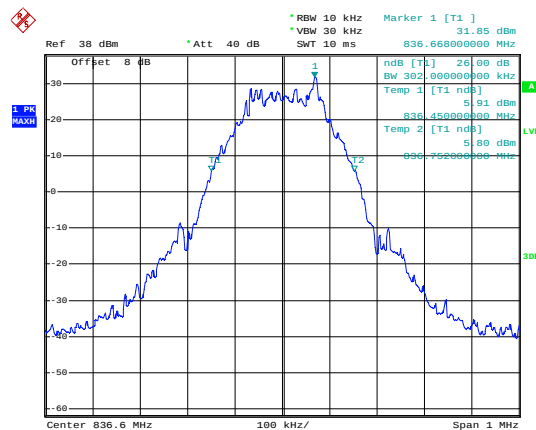


Highest channel

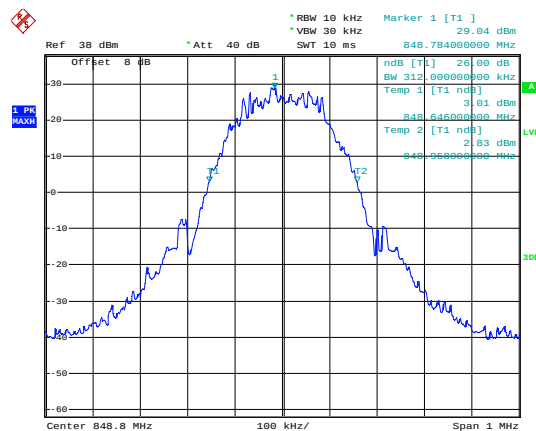
Test Item:	-26dB bandwidth	Test Mode:	EGPRS850
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Lowest channel

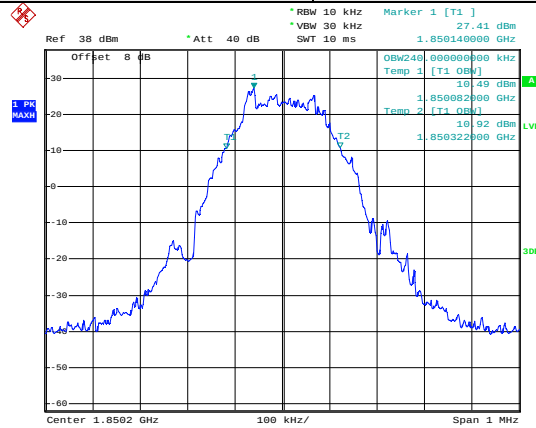


Middle channel

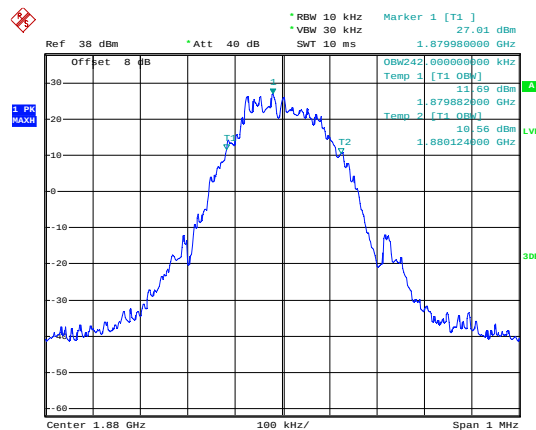


Highest channel

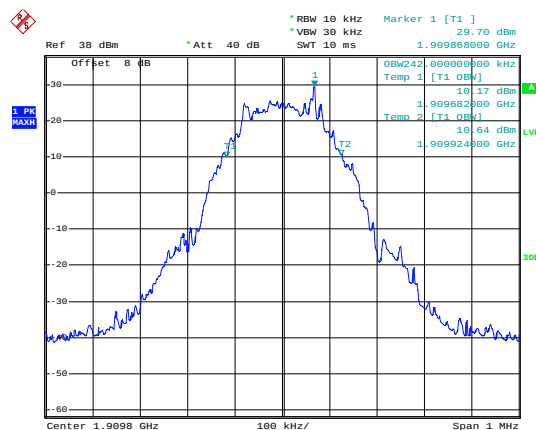
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Lowest channel

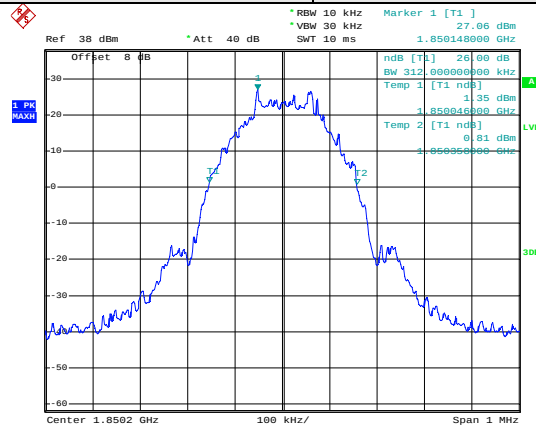


Middle channel

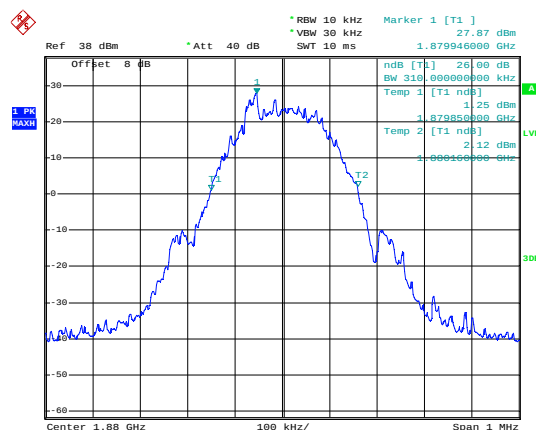


Highest channel

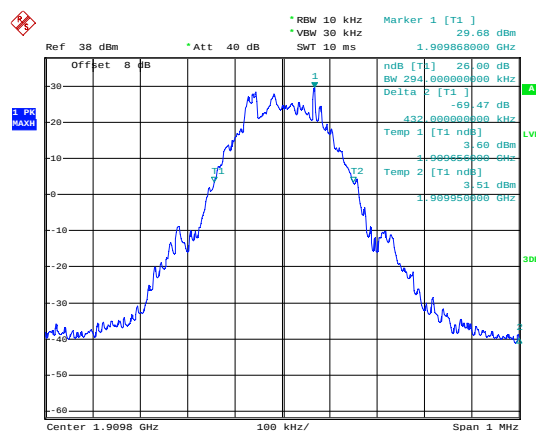
Test Item:	-26dB bandwidth	Test Mode:	EGPRS 1900
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Lowest channel

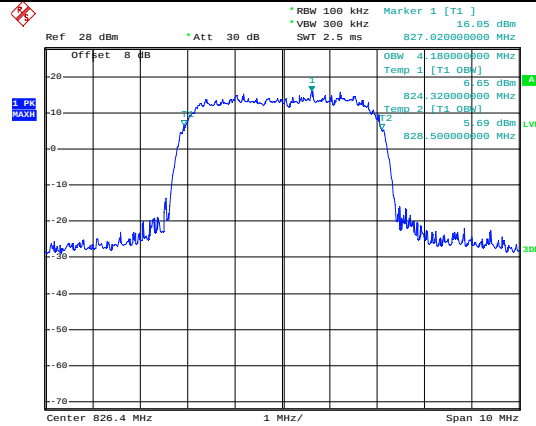


Middle channel

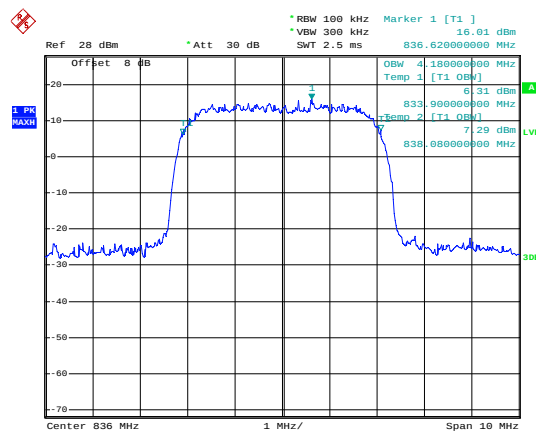


Highest channel

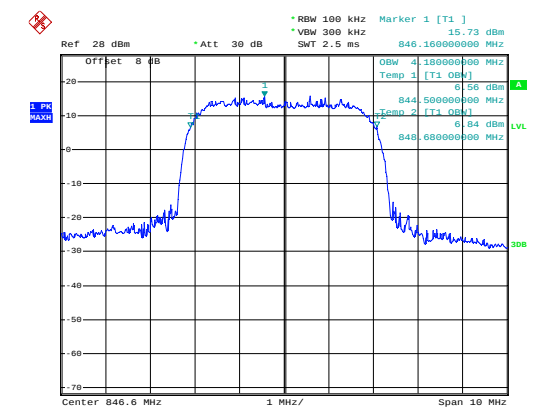
Test Item:	99% Occupy bandwidth	Test Mode:	UMTS 850 12.2k RMC
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Lowest channel

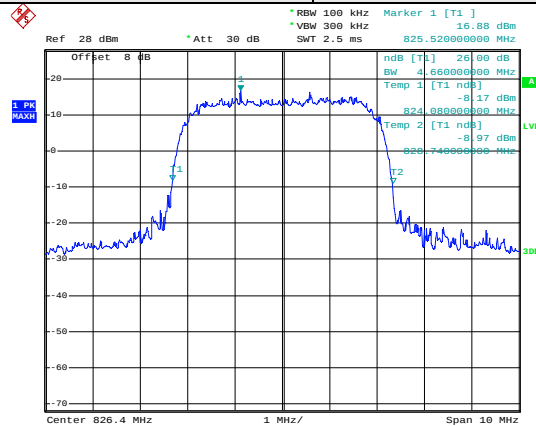


Middle channel

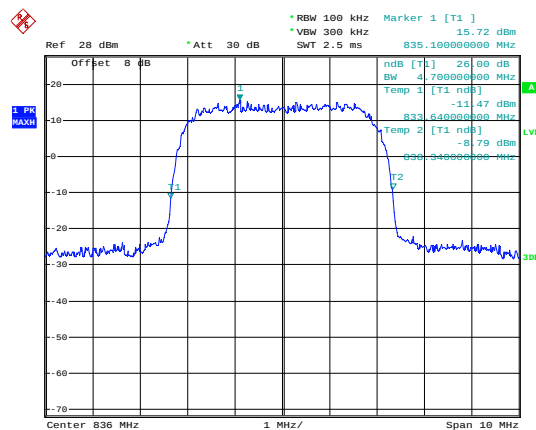


Highest channel

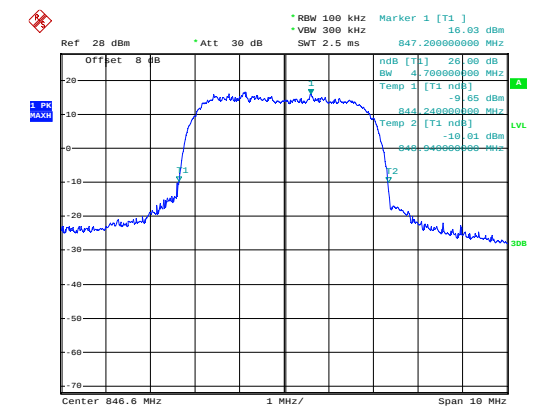
Test Item:	-26dB bandwidth	Test Mode:	UMTS 85012.2k RMC
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Lowest channel

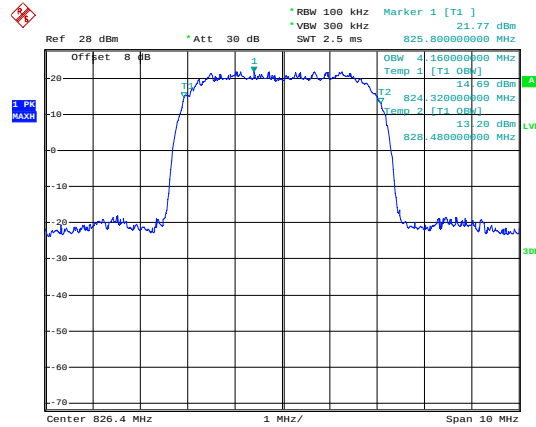


Middle channel

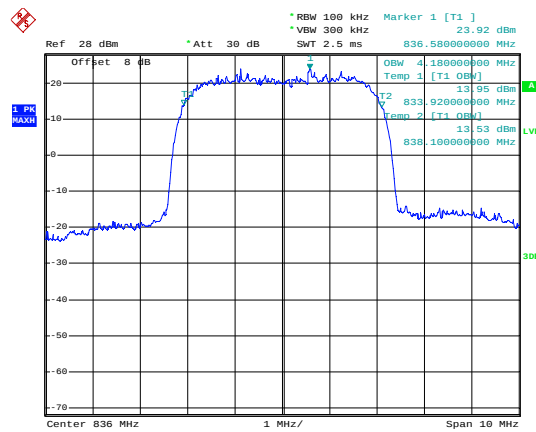


Highest channel

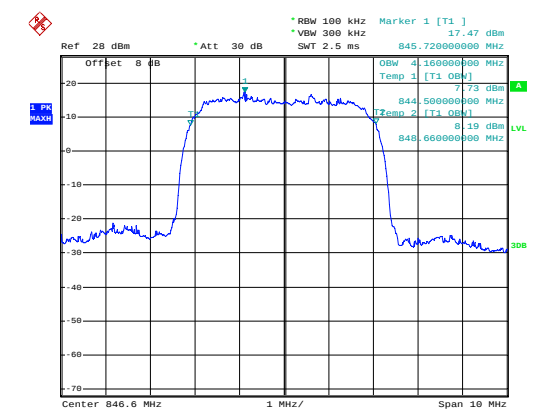
Test Item:	99% Occupancy bandwidth	Test Mode:	UMTS 850 HSDPA
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Lowest channel

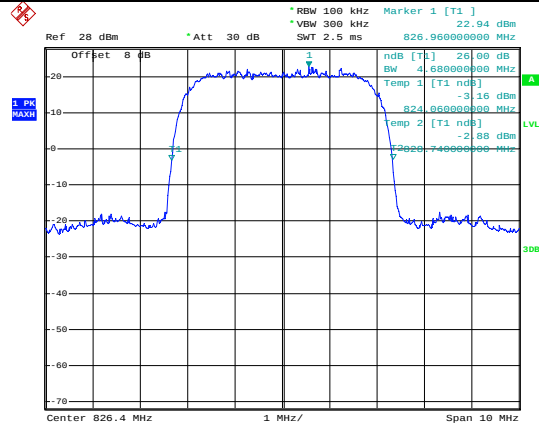


Middle channel

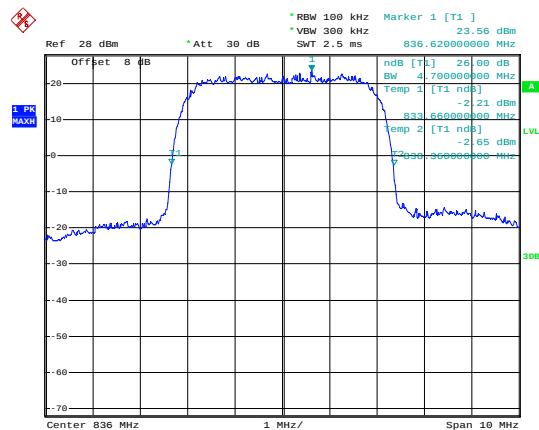


Highest channel

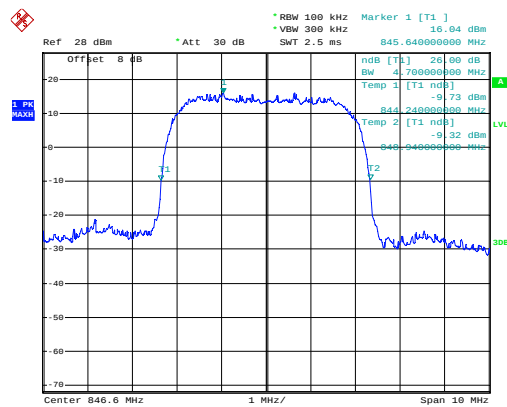
Test Item:	-26dB bandwidth	Test Mode:	UMTS 850 HSDPA
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Lowest channel



Middle channel

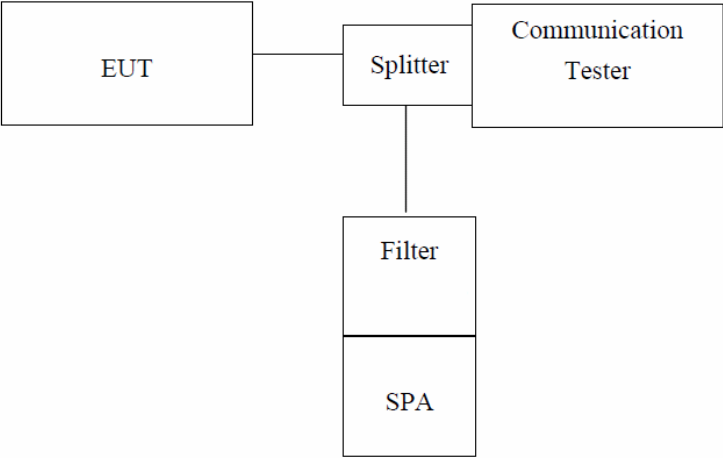


Highest channel

6.7 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.

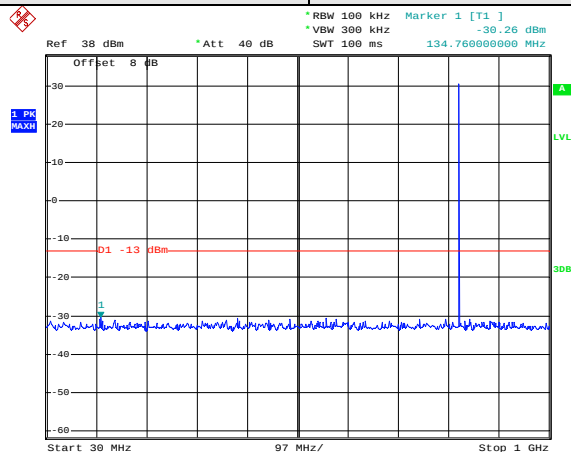
6.8 Out of band emission at antenna terminals

Test Requirement:	FCC part22.917(a) and FCC part24.238(a)
Test Method:	FCC part2.1051
Limit:	-13dBm
Test setup:	 <i>Note: Measurement setup for testing on Antenna connector</i>
Test Procedure:	1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. 2 The resolution bandwidth of the spectrum analyzer was set at 1MHz; sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic. 3 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. 4 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.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Test plot as follows:

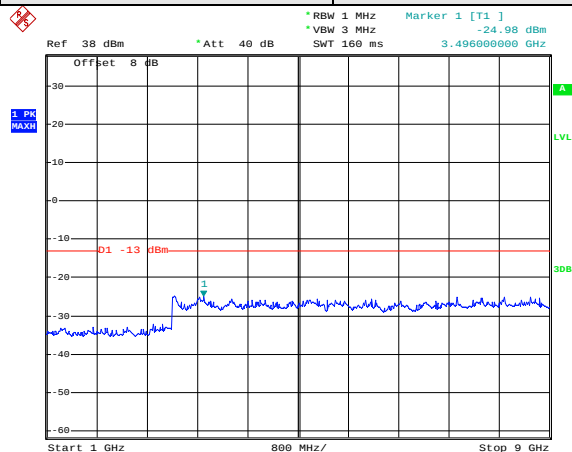
Spurious emission

Test Mode:	GPRS850	Test Channel:	Lowest channel
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Date: 10.DEC.2012 10:50:08

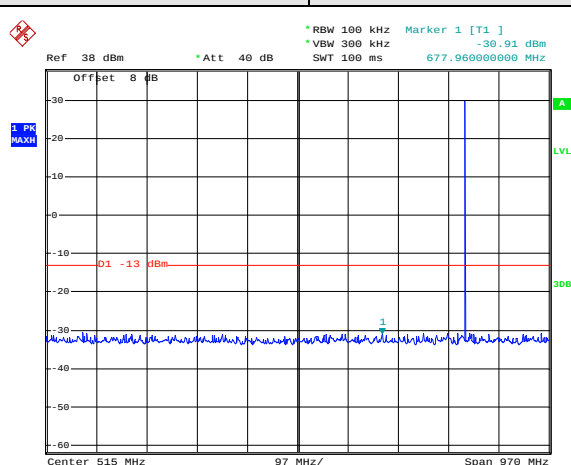
30MHz~1GHz



Date: 10.DEC.2012 10:57:02

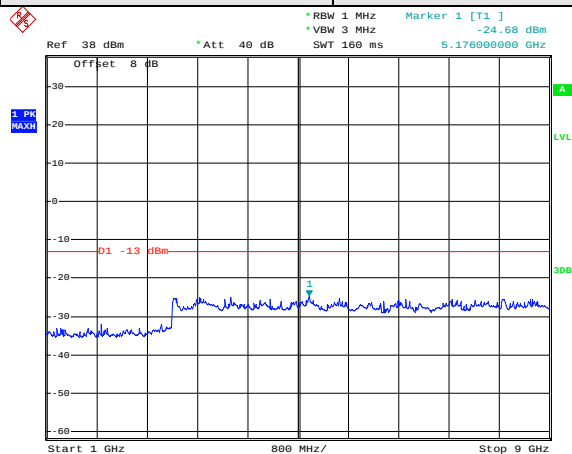
1GHz~9GHz

Test Mode:	GPRS850	Test Channel:	Middle channel
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Date: 10.DEC.2012 10:52:23

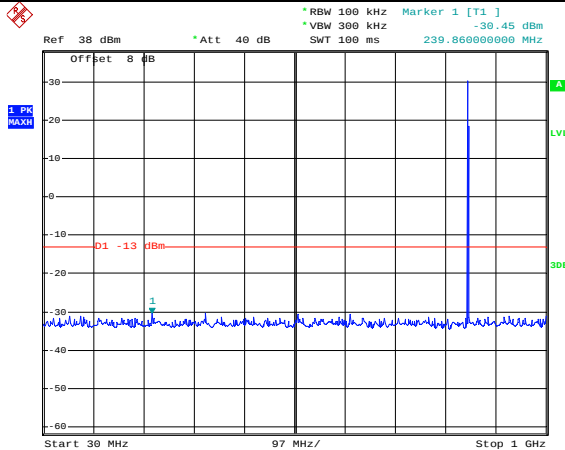
30MHz~1GHz



Date: 10.DEC.2012 10:56:52

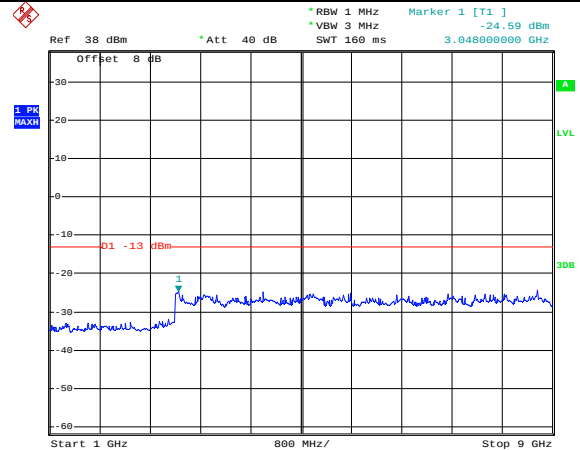
1GHz~9GHz

Test Mode:	GPRS850	Test Channel:	Highest channel
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Date: 10.DEC.2012 10:55:32

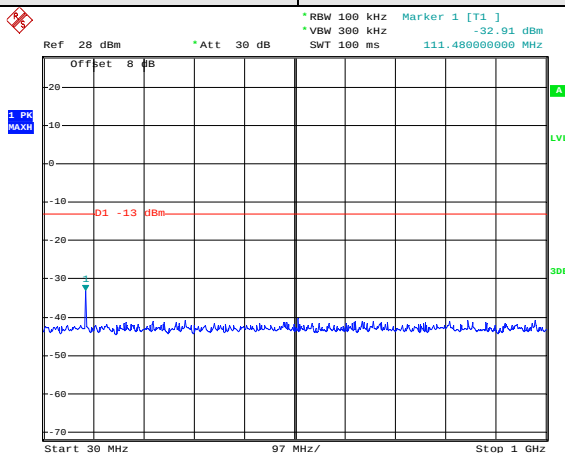
30MHz~1GHz



Date: 10.DEC.2012 10:56:42

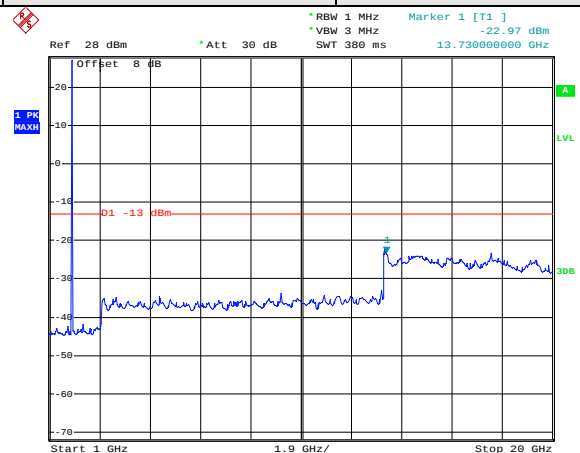
1GHz~9GHz

Test Mode:	GPRS1900	Test Channel:	Lowest channel
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Date: 10.DEC.2012 11:00:29

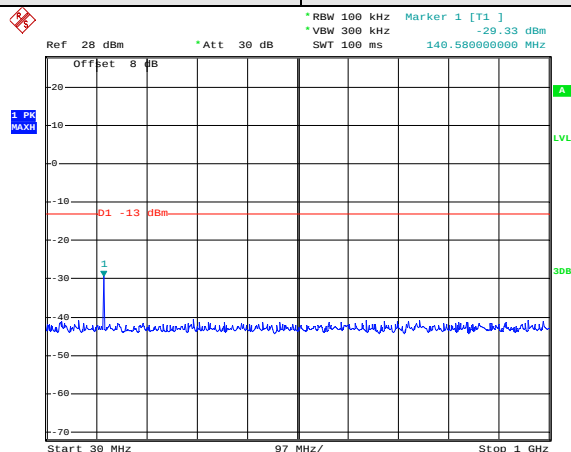
30MHz~1GHz



Date: 10.DEC.2012 10:59:11

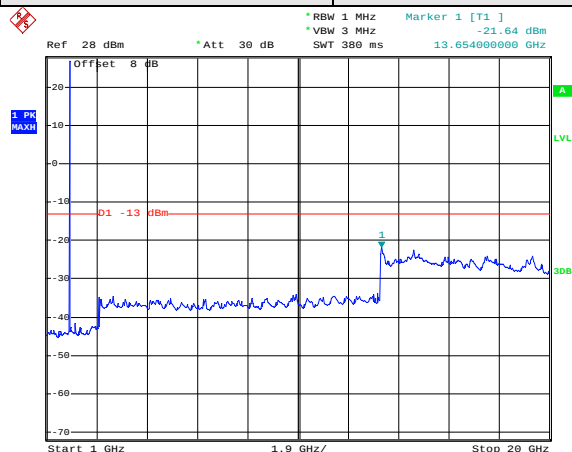
1GHz~20GHz

Test Mode:	GPRS1900	Test Channel:	Middle channel
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Date: 10.DEC.2012 11:05:22

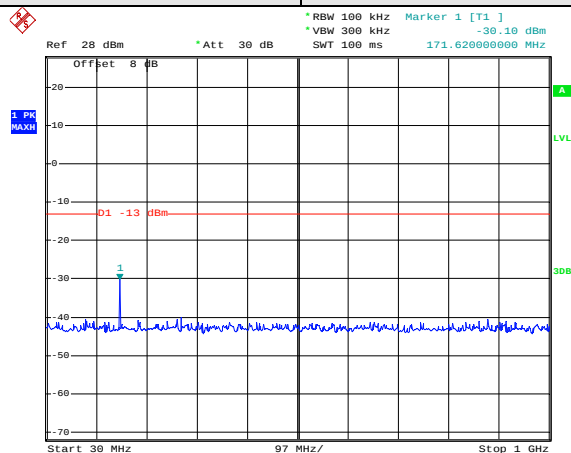
30MHz~1GHz



Date: 10.DEC.2012 10:59:39

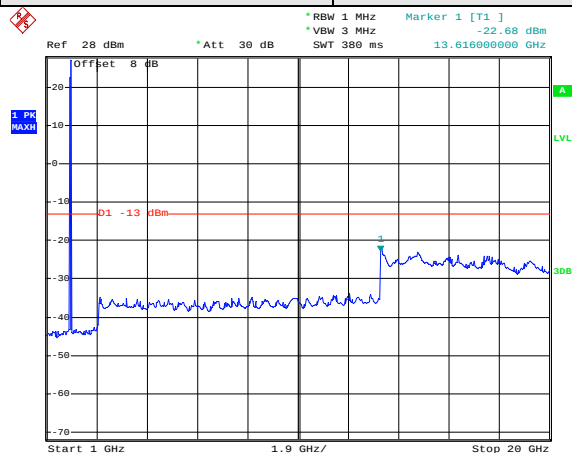
1GHz~20GHz

Test Mode:	GPRS1900	Test Channel:	Highest channel
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Date: 10.DEC.2012 11:05:52

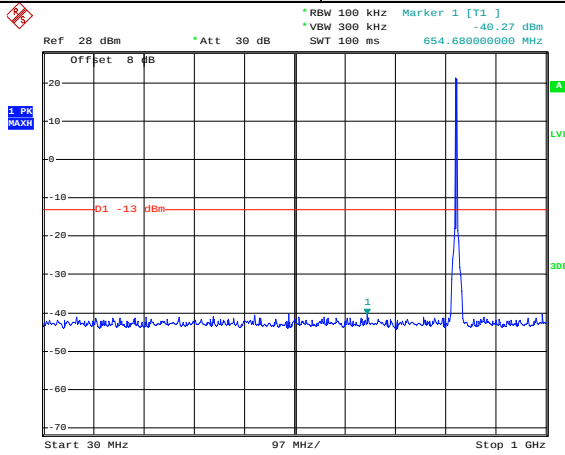
30MHz~1GHz



Date: 10.DEC.2012 11:00:00

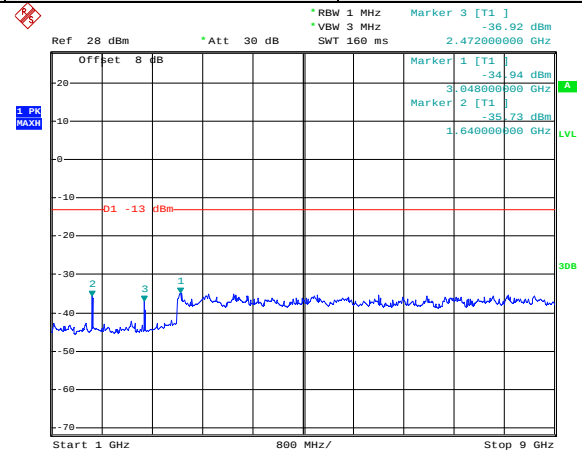
1GHz~20GHz

Test Mode:	UMTS 850 HSDPA	Test Channel:	Lowest channel
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Date: 13.DEC.2012 03:38:40

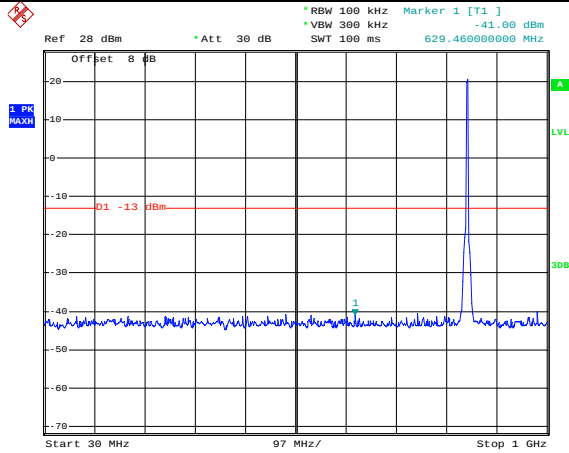
30MHz~1GHz



Date: 13.DEC.2012 03:35:04

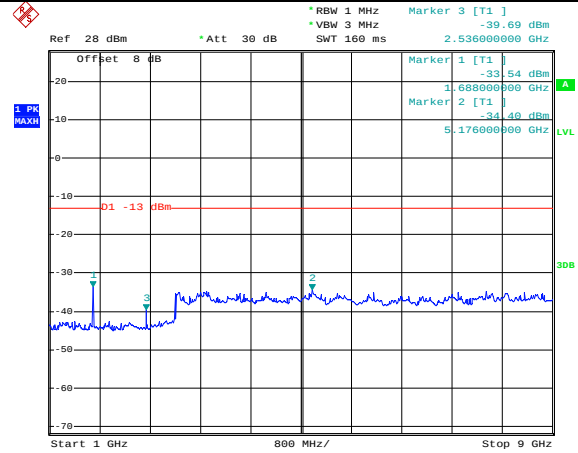
1GHz~9GHz

Test Mode:	UMTS 850 HSDPA	Test Channel:	Middle channel
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Date: 13.DEC.2012 03:39:49

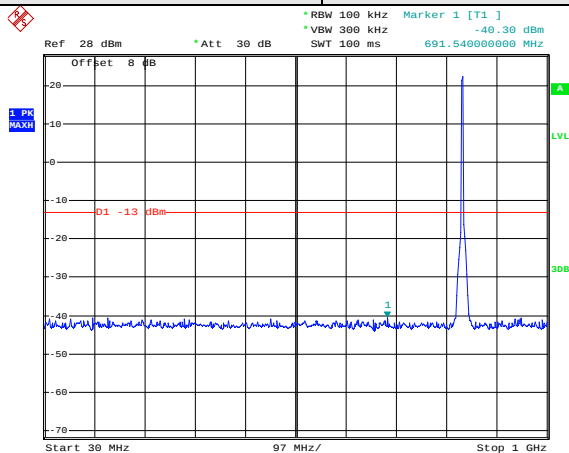
30MHz~1GHz



Date: 13.DEC.2012 03:39:30

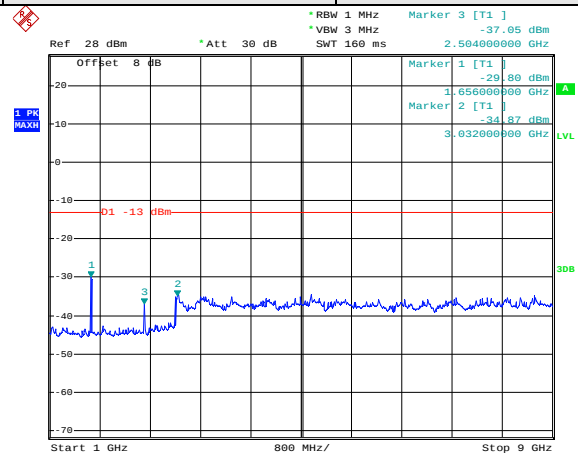
1GHz~9GHz

Test Mode:	UMTS 850 HSDPA	Test Channel:	Highest channel
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Date: 13.DEC.2012 03:37:46

30MHz~1GHz

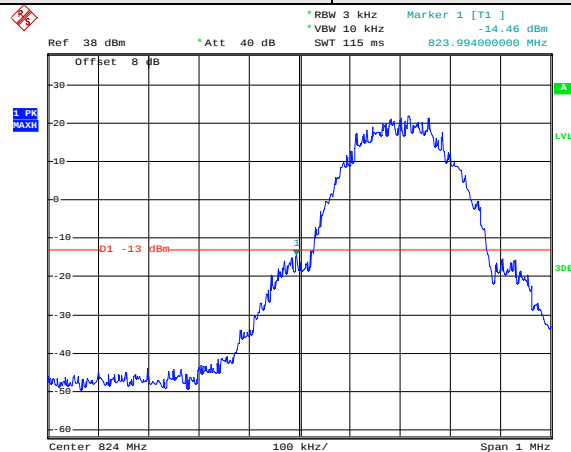


Date: 13.DEC.2012 03:38:06

1GHz~9GHz

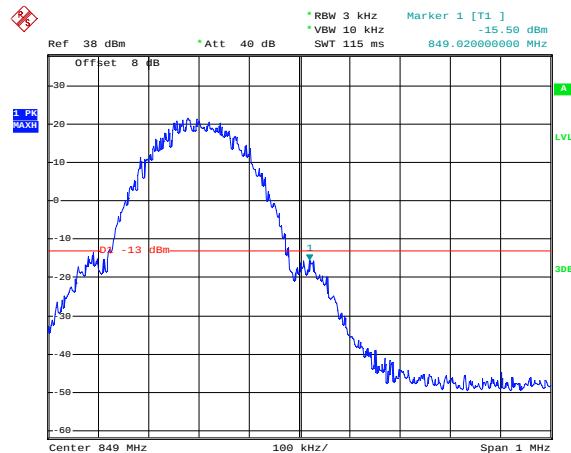
Band edge emission:

Test Mode:	GPRS850
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Date: 10.DEC.2012 10:49:30

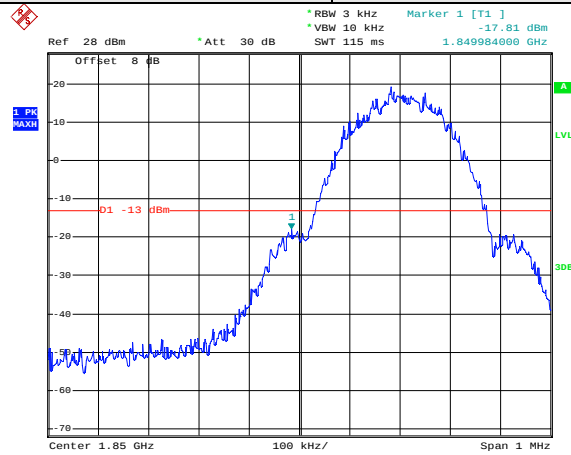
Lowest channel



Date: 10.DEC.2012 10:55:12

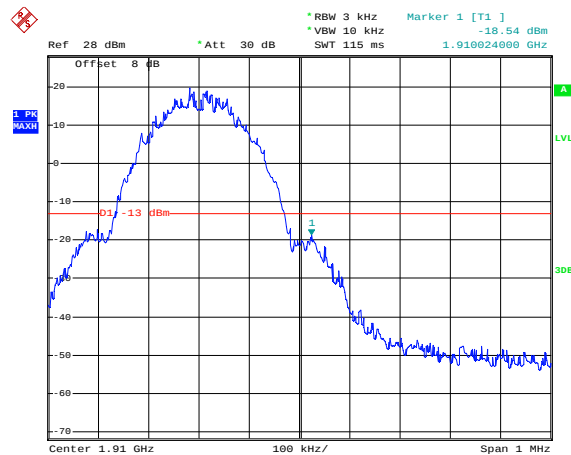
Highest channel

Test Mode:	GPRS850
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Date: 10.DEC.2012 11:01:03

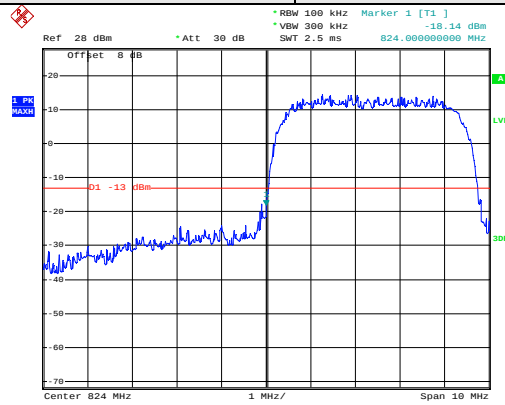
Lowest channel



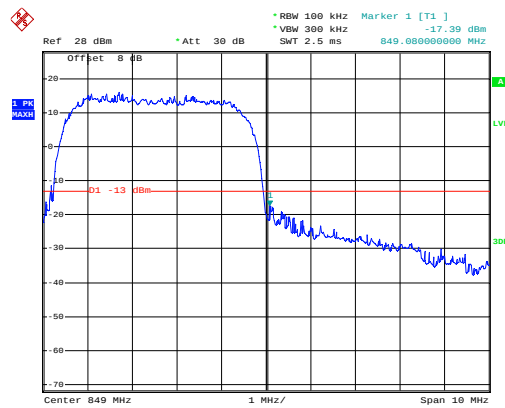
Date: 10.DEC.2012 11:06:48

Highest channel

Test Mode:	UMTS 850 HSDPA
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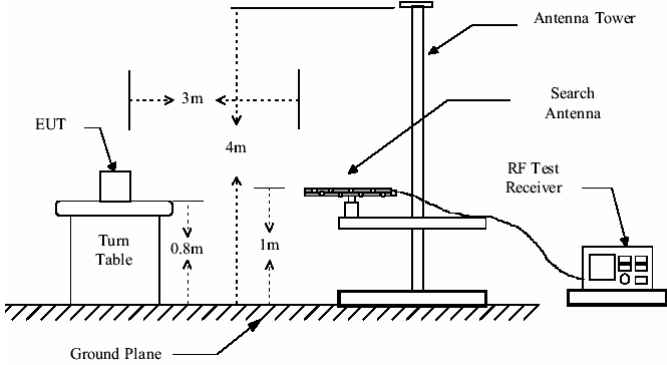
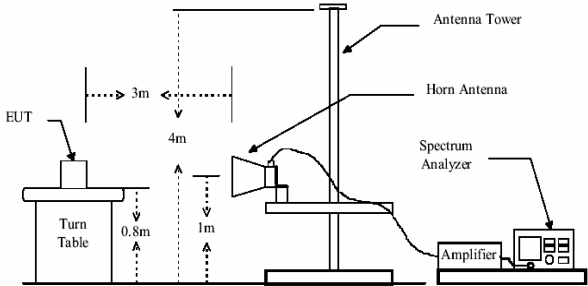
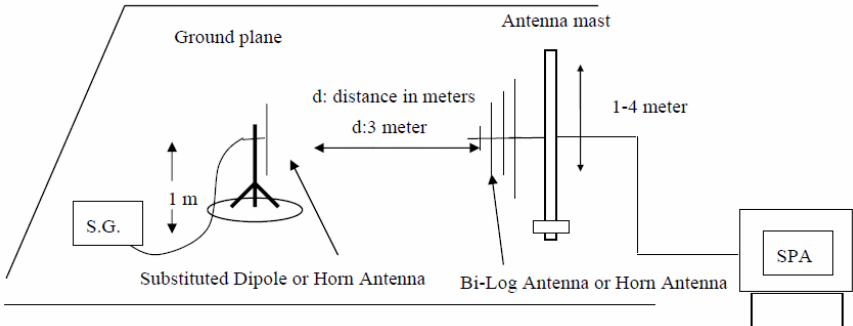


Lowest channel



Highest channel

6.9 ERP, EIRP Measurement

Test Requirement:	FCC part22.913(a) and FCC part24.232(b)
Test Method:	FCC part2.1046
Limit:	GSM850 7W ERP PCS1900 2W EIRP UMTS 850 7W ERP
Test setup:	Below 1GHz  Above 1GHz  Substituted method: 

Test Procedure:	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. 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. 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: $\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$ 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: $\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$ 5. The worse case was relating to the conducted output power.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	All modulations were test. The report just shows the worst case of each modulation.

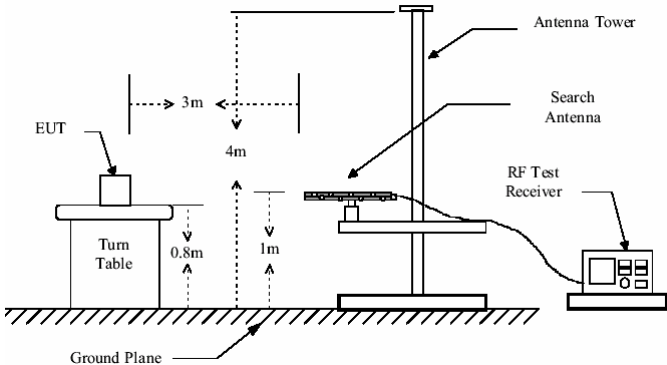
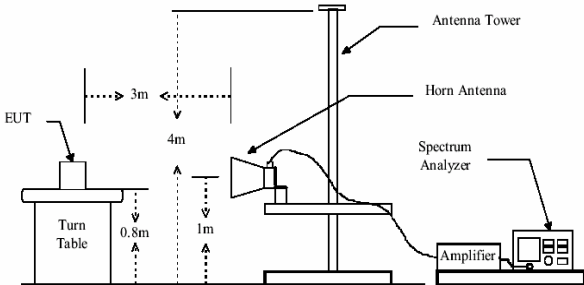
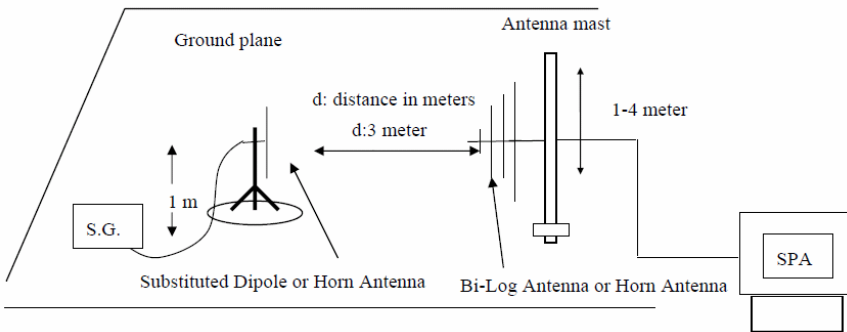
Measurement Data

EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
GRPS850	251	H	V	26.35	38.45	Pass
			H	22.32		
		E1	V	25.32		
			H	20.34		
		E2	V	26.05		
			H	20.31		
EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
EGRPS850	128	H	V	25.24	38.45	Pass
			H	21.52		
		E1	V	26.04		
			H	21.34		
		E2	V	26.04		
			H	21.25		

EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
GPRS 1900	810	H	V	23.24	33.00	Pass
			H	19.34		
		E1	V	24.32		
			H	20.34		
		E2	V	23.26		
			H	20.31		
EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
EGPRS 1900	810	H	V	22.34	33.00	Pass
			H	19.41		
		E1	V	23.16		
			H	21.39		
		E2	V	23.41		
			H	21.64		

EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
UMTS 850 HSDPA Sub-test 1	4233	H	V	20.35	38.45	Pass
			H	16.32		
		E1	V	20.24		
			H	18.35		
		E2	V	20.65		
			H	18.71		
EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
UMTS 850 12.2k RMC	4233	H	V	20.31	38.45	Pass
			H	16.25		
		E1	V	20.20		
			H	18.31		
		E2	V	20.60		
			H	18.63		

6.9 Field strength of spurious radiation measurement

Test Requirement:	FCC part22.917(a) and FCC part24.238(a)
Test Method:	FCC part2.1053
Limit:	-13dBm
Test setup:	Below 1GHz  Above 1GHz  Substituted method: 
Test Procedure:	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. 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. 3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method. 4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. $\text{ERP / EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dBd/dBi)} - \text{Cable Loss (dB)}$
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data

Test mode:	GPRS850		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1648.40	Vertical	-15.56	-13.00	Pass
2472.60	V	-53.43		
3296.80	V	-43.83		
4121.00	V	-46.46		
4945.20	V	---		
5769.40	V	---		
1648.40	Horizontal	-18.52	-13.00	Pass
2472.60	H	-50.01		
3296.80	H	-43.21		
4121.00	H	-47.59		
4945.20	H	---		
5769.40	H	---		
Test mode:	GPRS850		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1673.20	Vertical	-13.22	-13.00	Pass
2509.80	V	-40.66		
3346.40	V	-30.91		
4183.00	V	-41.27		
5019.60	V	---		
5856.20	V	---		
1673.20	Horizontal	-17.75	-13.00	Pass
2509.80	H	-37.37		
3346.40	H	-37.96		
4183.00	H	-43.54		
5019.60	H	---		
5856.20	H	---		

Remark :

1. The emission behavior belongs to narrowband spurious emission.
2. Remark"---" means that the emission level is too low to be measured
3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

Test mode:	GPRS850		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1697.60	Vertical	-14.36	-13.00	Pass
2546.40	V	-43.02		
3395.20	V	-47.41		
4244.00	V	-42.35		
5092.80	V	---		
5941.60	V	---		
1697.60	Horizontal	-21.99	-13.00	Pass
2546.40	H	-41.38		
3395.20	H	-42.84		
4244.00	H	-45.07		
5092.80	H	---		
5941.60	H	---		
Test mode:	GPRS1900		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3700.40	Vertical	-51.41	-13.00	Pass
5550.60	V	-28.24		
7400.80	V	-35.28		
9251.00	V	-39.83		
11101.20	V	---		
12951.40	V	---		
3700.40	Horizontal	-46.58	-13.00	Pass
5550.60	H	-30.17		
7400.80	H	-35.80		
9251.00	H	-41.14		
11101.20	H	---		
12951.40	H	---		

Remark :

1. The emission behavior belongs to narrowband spurious emission.
2. Remark"---" means that the emission level is too low to be measured
3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

Test mode:	GPRS1900		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3760.00	Vertical	-50.11	-13.00	Pass
5640.00	V	-38.22		
7520.00	V	-37.32		
9400.00	V	-39.33		
11280.00	V	---		
13160.00	V	---		
3760.00	Horizontal	-51.71	-13.00	Pass
5640.00	H	-40.91		
7520.00	H	-37.78		
9400.00	H	-40.10		
11280.00	H	---		
13160.00	H	---		
Test mode:	GPRS1900		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3819.60	Vertical	-52.64	-13.00	Pass
5729.40	V	-31.68		
7639.20	V	-36.96		
9549.00	V	-38.63		
11458.80	V	---		
13368.60	V	---		
3819.60	Horizontal	-48.67	-13.00	Pass
5729.40	H	-38.59		
7639.20	H	-37.59		
9549.00	H	-40.42		
11458.80	H	---		
13368.60	H	---		

Remark :

1. The emission behavior belongs to narrowband spurious emission.
2. Remark"---" means that the emission level is too low to be measured
3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

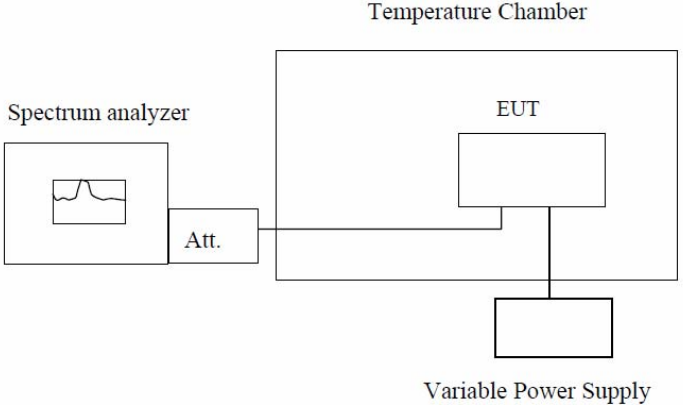
Test mode:	HSDPA UMTS850		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1652.8	Vertical	-16.34	-13.00	Pass
2479.2	V	-42.31		
3305.6	V	-46.35		
4132	V	-47.35		
4958.4	V	---		
5784.8	V	---		
1652.8	Horizontal	-18.71	-13.00	Pass
2479.2	H	-49.35		
3305.6	H	-50.32		
4132	H	-51.36		
4958.4	H	---		
5784.8	H	---		
Test mode:	HSDPA UMTS850		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1672	Vertical	-16.34	-13.00	Pass
2508	V	-42.36		
3344	V	-46.32		
4180	V	-49.22		
5016	V	---		
5852	V	---		
1672	Horizontal	-17.14	-13.00	Pass
2508	H	-37.63		
3344	H	-40.35		
4180	H	-46.34		
5016	H	---		
5852	H	---		

Test mode:	HSDPA UMTS850		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1693.2	Vertical	-14.64	-13.00	Pass
2539.8	V	-42.25		
3386.4	V	-47.14		
4233	V	-49.34		
5079.6	V	---		
5926.2	V	---		
1693.2	Horizontal	-20.31	-13.00	Pass
2539.8	H	-46.34		
3386.4	H	-49.34		
4233	H	-50.34		
5079.6	H	---		
5926.2	H	---		

Remark :

4. The emission behavior belongs to narrowband spurious emission.
5. Remark"---" means that the emission level is too low to be measured
6. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

6.10 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part2.1055(a)(1)(b)
Test Method:	FCC Part2.1055(a)(1)(b)
Limit:	2.5ppm
Test setup:	 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. 4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating 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 Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data

Reference Frequency: GPRS 850 Lowest channel=128 channel=824.2MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	33	0.040039	2.5	Pass
	-20	42	0.050959		
	-10	43	0.052172		
	0	41	0.049745		
	10	35	0.042465		
	20	38	0.046105		
	30	47	0.057025		
	40	48	0.058238		
	50	43	0.052172		
Reference Frequency: GPRS1900 Lowest channel=512 channel=1850.2MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	35	0.018917	2.5	Pass
	-20	32	0.017295		
	-10	26	0.014053		
	0	37	0.019998		
	10	42	0.022700		
	20	41	0.022160		
	30	33	0.017836		
	40	45	0.024322		
	50	46	0.024862		

Reference Frequency: EGPRS 850 Lowest channel=128 channel=824.2MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	35	0.042465	2.5	Pass
	-20	43	0.052172		
	-10	41	0.049745		
	0	42	0.050959		
	10	36	0.043679		
	20	37	0.044892		
	30	48	0.058238		
	40	47	0.057025		
	50	41	0.049745		
Reference Frequency: EGPRS1900 Lowest channel=512 channel=1850.2MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	36	0.019457	2.5	Pass
	-20	38	0.020538		
	-10	21	0.011350		
	0	35	0.018917		
	10	44	0.023781		
	20	45	0.024322		
	30	36	0.019457		
	40	44	0.023781		
	50	47	0.025403		

Reference Frequency: HSDPA UMTS850 Lowest channel=4132 channel=826.4MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	32	0.038722	2.5	Pass
	-20	34	0.041142		
	-10	21	0.025411		
	0	31	0.037512		
	10	44	0.053243		
	20	42	0.050823		
	30	35	0.042352		
	40	44	0.053243		
	50	44	0.053243		

Reference Frequency: GPRS 850 Middle channel=190 channel=836.6MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	44	0.052594	2.5	Pass
	-20	23	0.027492		
	-10	35	0.041836		
	0	42	0.050203		
	10	48	0.057375		
	20	59	0.070524		
	30	53	0.063352		
	40	51	0.060961		
	50	45	0.053789		

Reference Frequency: GPRS 1900 Middle channel=661 channel=1880MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	41	0.021809	2.5	Pass
	-20	36	0.019149		
	-10	43	0.022872		
	0	46	0.024468		
	10	51	0.027128		
	20	41	0.021809		
	30	42	0.022340		
	40	47	0.025000		
	50	46	0.024468		
Reference Frequency: EGPRS 850 Middle channel=190 channel=836.6MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	46	0.054984	2.5	Pass
	-20	24	0.028688		
	-10	36	0.043031		
	0	43	0.051399		
	10	49	0.058570		
	20	60	0.071719		
	30	54	0.064547		
	40	52	0.062156		
	50	46	0.054984		

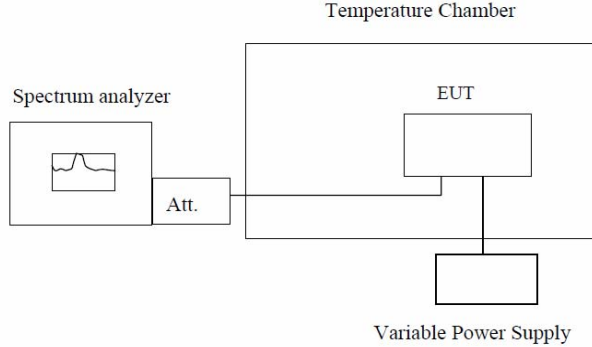
Reference Frequency: EGPRS 1900 Middle channel=661 channel=1880MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	42	0.022340	2.5	Pass
	-20	37	0.019681		
	-10	44	0.023404		
	0	47	0.025000		
	10	52	0.027660		
	20	42	0.022340		
	30	43	0.022872		
	40	48	0.025532		
	50	47	0.025000		
Reference Frequency: HSDPAUMTS850 Middle channel=4180 channel=836MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	44	0.052632	2.5	Pass
	-20	42	0.050239		
	-10	45	0.053828		
	0	41	0.049043		
	10	54	0.064593		
	20	42	0.050239		
	30	36	0.043062		
	40	48	0.057416		
	50	45	0.053828		

Reference Frequency: GPRS 850 Highest channel=251 channel=848.8 MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	41	0.048303	2.5	Pass
	-20	36	0.042413		
	-10	32	0.037700		
	0	41	0.048303		
	10	48	0.056550		
	20	42	0.049482		
	30	36	0.042413		
	40	35	0.041235		
	50	48	0.056550		
Reference Frequency: GPRS 1900 Highest channel=810 channel=1909.8MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	36	0.018850	2.5	Pass
	-20	35	0.018327		
	-10	41	0.021468		
	0	40	0.020945		
	10	42	0.021992		
	20	46	0.024086		
	30	35	0.018327		
	40	41	0.021468		
	50	35	0.018327		

Reference Frequency: EGPRS 850 Highest channel=251 channel=848.8 MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	43	0.050660	2.5	Pass
	-20	38	0.044769		
	-10	34	0.040057		
	0	43	0.050660		
	10	47	0.055372		
	20	44	0.051838		
	30	35	0.041235		
	40	32	0.037700		
	50	49	0.057729		
Reference Frequency: EGPRS 1900 Highest channel=810 channel=1909.8MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	36	0.018850	2.5	Pass
	-20	34	0.017803		
	-10	43	0.022515		
	0	41	0.021468		
	10	43	0.022515		
	20	43	0.022515		
	30	36	0.018850		
	40	42	0.021992		
	50	37	0.019374		

Reference Frequency: HSDPA UMTS 850 Highest channel=4233 channel=846.6MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	32	0.037798	2.5	Pass
	-20	31	0.036617		
	-10	47	0.055516		
	0	44	0.051973		
	10	41	0.048429		
	20	46	0.054335		
	30	34	0.040161		
	40	41	0.048429		
	50	34	0.040161		

6.11 Frequency stability V.S. Voltage measurement

Test Requirement:	FCC Part2.1055(d)(1)(2)
Test Method:	FCC Part2.1055(d)(1)(2)
Limit:	2.5ppm
Test setup:	 Note : Measurement setup for testing on Antenna connector
Test procedure:	1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. 2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. 3. Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data

Reference Frequency: GPRS 850 Lowest channel=128 channel=824.2MHz

Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	41	0.049745	2.5	Pass
	3.70	41	0.049745		
	3.40	40	0.048531		

Reference Frequency: GPRS 1900 Lowest channel=512 channel=1850.2MHz

Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	49	0.026483	2.5	Pass
	3.70	38	0.020538		
	3.40	40	0.021619		

Reference Frequency: EGPRS 850 Lowest channel=128 channel=824.2MHz					
25	4.25	35	0.042465	2.5	Pass
	3.70	43	0.052172		
	3.40	49	0.059452		
Reference Frequency: EGPRS 1900 Lowest channel=512 channel=1850.2MHz					
25	4.25	42	0.022700	2.5	Pass
	3.70	40	0.021619		
	3.40	39	0.021079		
Reference Frequency: HSDPA UMTS 850 Lowest channel=4132 channel=826.4MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	44	0.053243	2.5	Pass
	3.70	34	0.041142		
	3.40	35	0.042352		

Reference Frequency: GPRS 850 Middle channel=190 channel=836.6MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	37	0.044226	2.5	Pass
	3.70	36	0.043031		
	3.40	43	0.051398		
Reference Frequency: GPRS 1900 Middle channel=661 channel=1880MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	36	0.019148	2.5	Pass
	3.70	40	0.021276		
	3.40	38	0.020212		

Reference Frequency: EGPRS 850 Middle channel=190 channel=836.6MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	35	0.041836	2.5	Pass
	3.70	42	0.050203		
	3.40	46	0.054984		
Reference Frequency: EGPRS 1900 Middle channel=661 channel=1880MHz					
25	4.25	35	0.018617	2.5	Pass
	3.70	41	0.021809		
	3.40	42	0.022340		
Reference Frequency: HSDPA UMTS 850 Middle channel=4180 channel=836MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	38	0.045455	2.5	Pass
	3.70	45	0.053828		
	3.40	34	0.040670		
Reference Frequency: GPRS 850 Highest channel=251 channel=848.8MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	43	0.050659	2.5	Pass
	3.70	33	0.038818		
	3.40	46	0.054194		
Reference Frequency: GPRS 1900 Highest channel=810 channel=1909.8MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	37	0.019373	2.5	Pass
	3.70	42	0.021991		
	3.40	47	0.024609		

Reference Frequency: EGPRS 850 Highest channel=251 channel=848.8MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	35	0.041235	2.5	Pass
	3.70	39	0.045947		
	3.40	41	0.048303		
Reference Frequency: EGPRS 1900 Lowest channel=810 channel=1909.8MHz					
25	4.25	36	0.018850	2.5	Pass
	3.70	41	0.021468		
	3.40	45	0.023563		
Reference Frequency: HSDPA UMTS 850 Highest channel=4233 channel=846.6MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	36	0.042523	2.5	Pass
	3.70	41	0.048429		
	3.40	45	0.053154		