

TEST REPORT

REPORT NUMBER: I08GW7473-FCC-EMC

ON

Type of Equipment: Pocket Pc
Type of Designation: 810-F
Manufacturer: ON TIM Technologies LTD

ACCORDING TO

FCC CFR Part 2, FREQUENCY ALLOCATIONS AND RADIO
TREATY MATTERS; GENERAL RULES AND REGULATIONS;
e-CFR, March 23, 2006

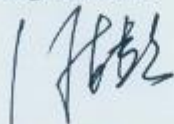
PART 22, PUBLIC MOBILE SERVICES (Oct 1, 02 Edition)

PART 24, PERSONAL COMMUNICATIONS SERVICES (Oct 1, 97
Edition)

China Telecommunication Technology Labs.

Month date, year
Apr, 7, 2009

Signature



He Guili
Director

FCC ID: W4R001

Report Date: 2009-4-2

Test Firm Name: China Telecommunication Technology Labs

Registration Number: 840587

Statement

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Parts 2, 22, and 24. The sample tested was found to comply with the requirements defined in the applied rules.

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1 General Information

1.1 Notes

All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Parts 2, 22 and 24.

The test results of this test report relate exclusively to the item(s) tested as specified in section 2.

The following deviation from, additions to, or exclusions from the test specifications have been made. See Annex C.

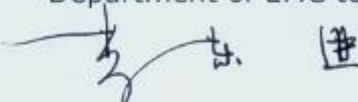
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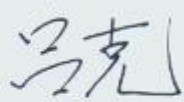
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FCC Parts 2, 22, 24
Equipment: 810-F

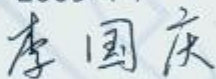
REPORT NO.: I08GW7473-FCC-EMC

1.2 Testers

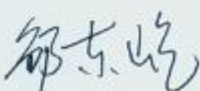
Name: Li Dongjin
Position: Engineer
Department: Department of EMC test
Signature: 

Name: Lv Ke
Position: Engineer
Department: Department of EMC test
Signature: 

Editor of this test report:

Name: Li Guoqing
Position: Engineer
Department: Department of EMC test
Date: 2009-4-7
Signature: 

Technical responsibility for area of testing:

Name: Zou Dongyi
Position: Manager
Department: Department of EMC test
Date: 2009-4-7
Signature: 

1.3 Testing Laboratory information

1.3.1 Location

Name: China Telecommunication Technology Labs.

Address: No. 11, Yue Tan Nan Jie, Xi Cheng District
BEIJING

P. R. CHINA, 100083

Tel: +86 10 68094053

Fax: +86 10 68011404

Email: emc@chinattl.com

1.3.2 Details of accreditation status

Accredited by: China National Accreditation Service for Conformity
Assessment (CNAS)

Registration number: CNAS Registration No. CNAS L0570

Standard: ISO/IEC 17025:2005

1.3.3 Test location, where different from section 1.3.1

Name: -----

Street: -----

City: -----

Country: -----

Telephone: -----

Fax: -----

Postcode: -----

1.4 Details of applicant or manufacturer

1.4.1 Applicant

Name: i-mate Development, Inc.
Address: 8383 158th Ave. N.E., Suite 300, Redmond, WA
98052-3871
Country: United States
Telephone: +1 425 558 9510
Fax: +1 425 861 7925
Contact: John Basacchi
Telephone: +1 425 558 9510
Email: john.basacchi@imate.com

1.4.2 Manufacturer (if different from applicant in section 1.4.1)

Name: ON TIM Technologies LTD
Address: M Floor, Electric Technology Tower, No.12A, Jiu Xian
Qiao Road, Chao Yang District, Beijing, China
(100016)

1.4.3 Manufactory (if different from applicant in section 1.4.1)

Name: TCL COMMUNICATION TECHNOLOGY HOLDINGS
LIMITED
Address: NO.23 Zone, ZhongKai High-Technology Development
Zone, HuiZhou, GuangDong, China

2 Test Item

2.1 General Information

Manufacturer: ON TIM Technologies LTD
Name: Pocket Pc
Model Number: 810-F
Serial Number: --
Production Status: Product
Receipt date of test item: 2008-12-19

2.2 Outline of EUT

E.U.T. is a Windows® Mobile Professional device (Pocket Pc) supporting 850/1900 band GSM/GPRS/EGPRS and WCDMA FDD V/II.

2.3 Modifications Incorporated in EUT

The EUT has not been modified from what is described by the brand name and unique type identification stated above.

2.4 Equipment Configuration

Equipment configuration list:

Item	Generic Description	Manufacturer	Type	Serial No.	Remarks
A	handset	ON TIM Technologies LTD	810-F	--	None
B	adapter	HIHONG TECHNOLOGY CO., LTD.	PSAI05R-050QCH	--	None
C	battery	Amperex Technology Limited	PS-424462-02 Lithium-ion Polymer, rechargeable battery	--	None
D	Earphone	--	--	--	None

Cables:

Item	Cable Type	Manufacturer	Length	Shield	Quantity	Remarks
1	DC cable on Adapter	Unknown	1.0 m	No	1	None

2.5 Other Information

- (a) GSM/GPRS Modulation is GMSK.
EGPRS modulation is 8PSK.
WCDMA modulation is QPSK.
- (b) GSM/GPRS Emission Designator is 248KGXW.
EGPRS emission designator is 248KG7W.
WCDMA/HSDPA emission designator is 4M27F9W.
- (c) Version of hardware and software
HW Version: P1
SW Version: 810-F_WWE.6.1.1.04
- (d) Adaptor information:
Input voltage: 100Vac to 240Vac; 50Hz to 60Hz
Output voltage: 5V dc
Input current: 0.3A (max)
Output current: 1.0A (max)
- (e) Battery information:
Capacity: 1200 mAh Voltage: 3.6 to 4.2V

3 Summary of Test Results

A brief summary of the tests carried out is shown as following.

GSM mode:		
Specification Clause	Name of Test	Result
2.1051, 24.238, 2.1053,22.917	Radiated Spurious Emission	Pass
2.1046,24.232	Radiated RF Power Output	Pass
22.913(a)	Effective Radiated Power (ERP)	Pass
2.1049,22.917(b), 24.238(b)	Occupied Bandwidth	*Note 1
2.1055,22.355, 24.235	Frequency Stability over Temperature Variation	Pass
2.1055,22.355, 24.235	Frequency Stability over Voltage Variation	Pass
2.1046,22.913(a), 24.232(c)	Conducted RF Power Output	Pass
2.1051,22.917,24. 238	Conducted spurious emissions	Pass
Note 1: No applicable performance criteria.		

GPRS mode:		
2.1051, 24.238, 2.1053,22.917	Radiated Spurious Emission	Pass
2.1046,24.232	Radiated RF Power Output	Pass
22.913(a)	Effective Radiated Power (ERP)	Pass
2.1049,22.917(b), 24.238(b)	Occupied Bandwidth	*Note 2
2.1055,22.355, 24.235	Frequency Stability over Temperature Variation	Pass
2.1055,22.355, 24.235	Frequency Stability over Voltage Variation	Pass
2.1046,22.913(a), 24.232(c)	Conducted RF Power Output	Pass
2.1051,22.917,24. 238	Conducted spurious emissions	Pass
Note 2: No applicable performance criteria.		

EGPRS mode:		
2.1051, 24.238, 2.1053,22.917	Radiated Spurious Emission	Pass
2.1046,24.232	Radiated RF Power Output	Pass
22.913(a)	Effective Radiated Power (ERP)	Pass
2.1049,22.917(b), 24.238(b)	Occupied Bandwidth	*Note 3
2.1055,22.355, 24.235	Frequency Stability over Temperature Variation	Pass
2.1055,22.355, 24.235	Frequency Stability over Voltage Variation	Pass
2.1046,22.913(a), 24.232(c)	Conducted RF Power Output	Pass
2.1051,22.917,24. 238	Conducted spurious emissions	Pass
Note 3: No applicable performance criteria.		

WCDMA mode:		
2.1051, 24.238, 2.1053,22.917	Radiated Spurious Emission	Pass
2.1046,24.232	Radiated RF Power Output	Pass
22.913(a)	Effective Radiated Power (ERP)	Pass
2.1049,22.917(b), 24.238(b)	Occupied Bandwidth	*Note 4
2.1055,22.355, 24.235	Frequency Stability over Temperature Variation	Pass
2.1055,22.355, 24.235	Frequency Stability over Voltage Variation	Pass
2.1046,22.913(a), 24.232(c)	Conducted RF Power Output	Pass
2.1051,22.917,24. 238	Conducted spurious emissions	Pass
Note 4: No applicable performance criteria.		

HSDPA mode:		
2.1051, 24.238, 2.1053,22.917	Radiated Spurious Emission	Pass
2.1046,24.232	Radiated RF Power Output	Pass
22.913(a)	Effective Radiated Power (ERP)	Pass
2.1049,22.917(b), 24.238(b)	Occupied Bandwidth	*Note 5
2.1055,22.355, 24.235	Frequency Stability over Temperature Variation	Pass
2.1055,22.355, 24.235	Frequency Stability over Voltage Variation	Pass
2.1046,22.913(a), 24.232(c)	Conducted RF Power Output	Pass
2.1051,22.917,24. 238	Conducted spurious emissions	Pass
Note 5: No applicable performance criteria.		

4 Test Results of mode

4.1 Radiated Spurious Emission

Specifications:	2.1051, 24.238, 2.1053, 22.917					
Date of Tests	2009-2-7/23,2009-4-3					
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 190 and 661 for GSM and channel 4175 and 9400 for WCDMA					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2010-01-11	Normal
7330	Ultra Broadband Antenna	SCHWARZBECK	VULB 9160	--	2010-10-26	Normal
7330	Double-Ridged Horn Antenna	R/S	HF906	100037	2010-01-09	Normal
713	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3 m	--	2010-11-16	Normal
023	Wireless Communications Test Set	Agilent	8960(E5515C)	GB41450323	2009-06-13	Normal
111835	Wireless Communications Test Set	R&S	CMU200	1100000802	--	Normal

Limit Level Construction:

According to Part 24.238 (a), i.e., Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB, so the limit level is:
 $P(\text{dBm}) - (43 + 10 \log(P)) \text{ dB} = -13 \text{ dBm}$

Limits for Radiated spurious emissions(UE)

Frequency range	Limit Level / Resolution Bandwidth
30 MHz to 20000 MHz	-13dBm/1MHz

Test Setup:

The EUT was placed in an anechoic chamber, see figure SP. The Wireless Communications Test Set was used to set the TX channel and power level and modulate the TX signal with different bit patterns. The test was done using an automated test system, where all test equipments were controlled by a computer.

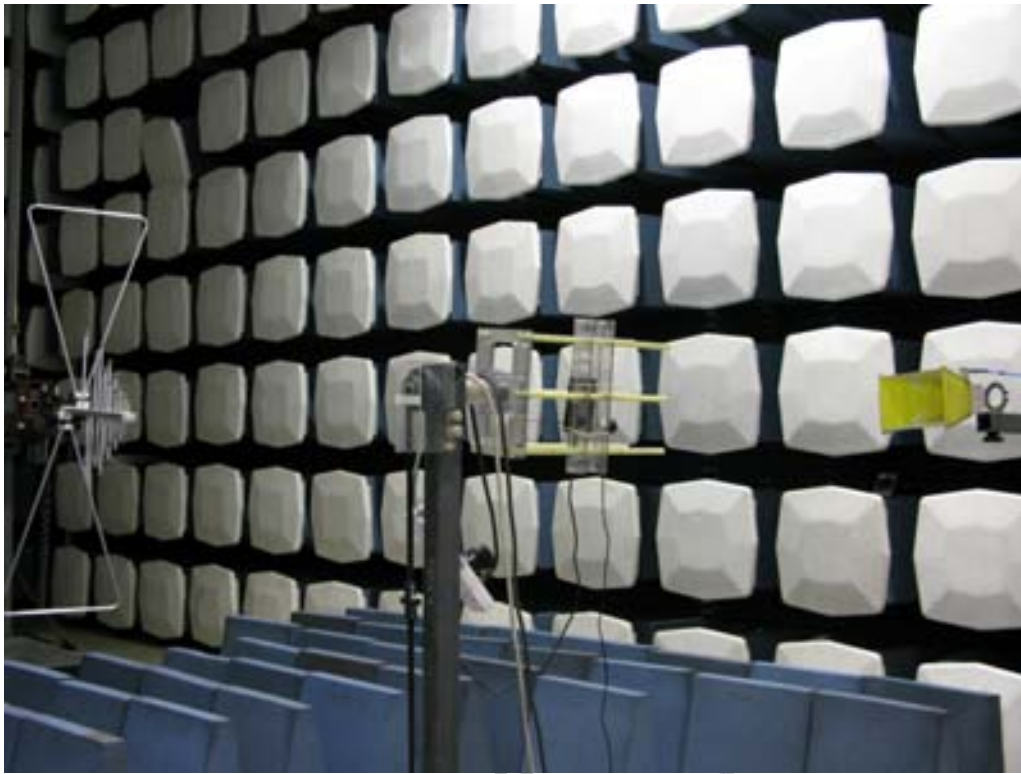


Figure SP

Test Method:

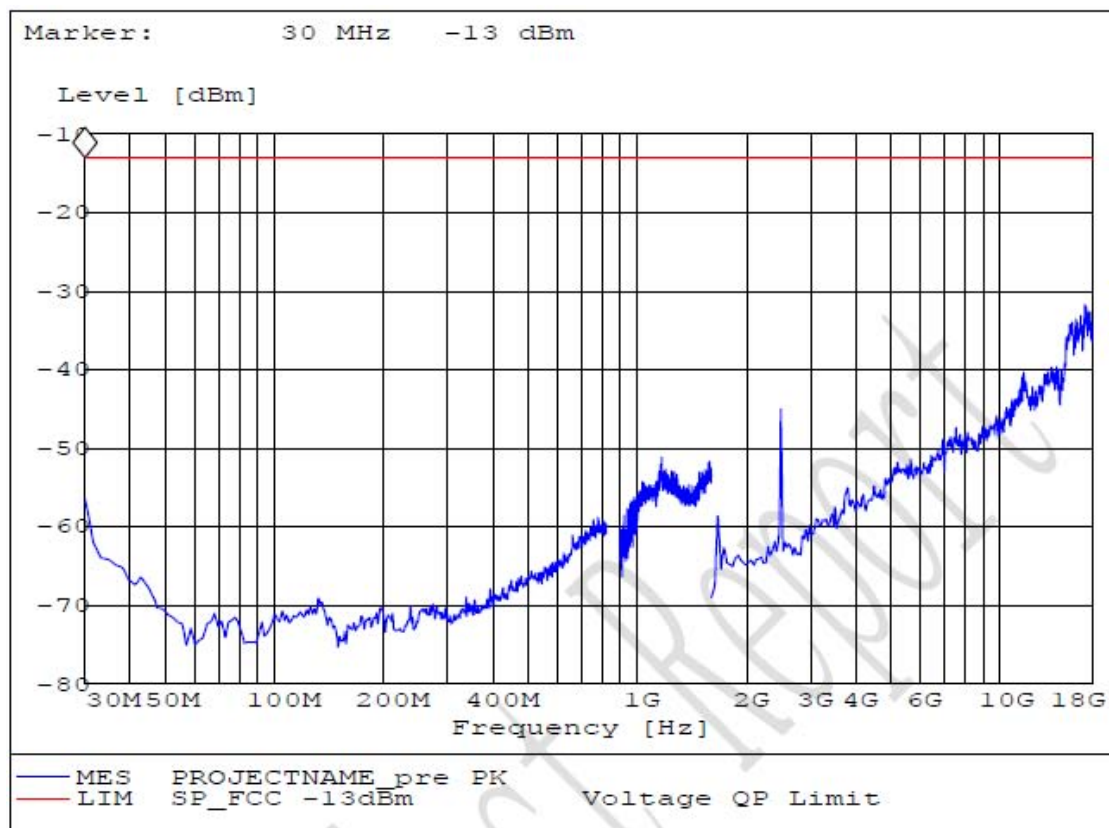
The measurement was performed accordance with section 2.2.12 of ANSI/TIA-603-B-2002: *Land Mobile FM or PM Communications Equipment Measurement and Performance Standards*.

- 1 The maximum spurious emissions were searched by turning the azimuth of the turntable, shifting the polarization of the measuring antenna and changing the pose of the EUT.
- 2 Levels of EUT's transmitter harmonics and suspicious signals were recorded.
- 3 The recorded levels were corrected in the automated test system with the correction factors given by a substitution calibration made before the measurement. The calibration was made separately for vertical and horizontal polarization and the system uses different correction factors depending on the measuring antenna polarization.
- 4 The corrected values of radiated spurious emissions indicated as EIRP are reported.

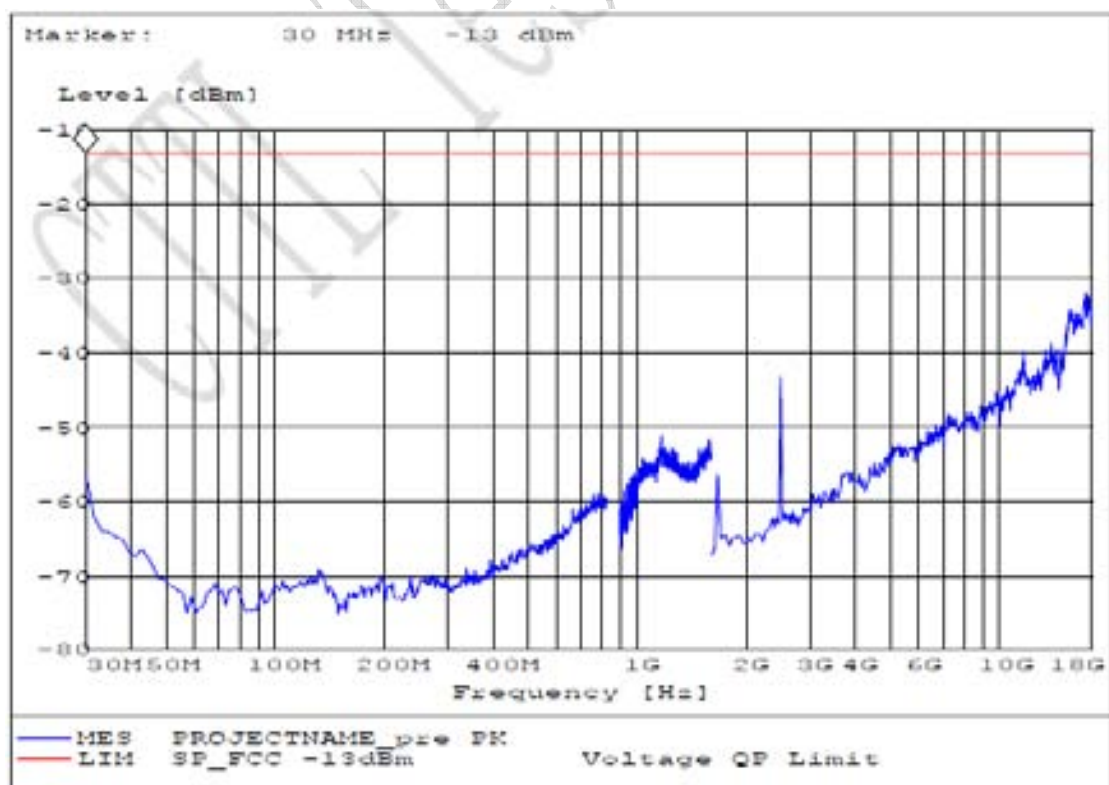
Note:

- 1 The investigated ARFCNs are 190 (836.6 MHz) and 661 (1880.0 MHz) for GSM, and channel 4175 and 9400 for WCDMA.
- 2 The investigated frequency range is 30 MHz ~ 18 GHz.

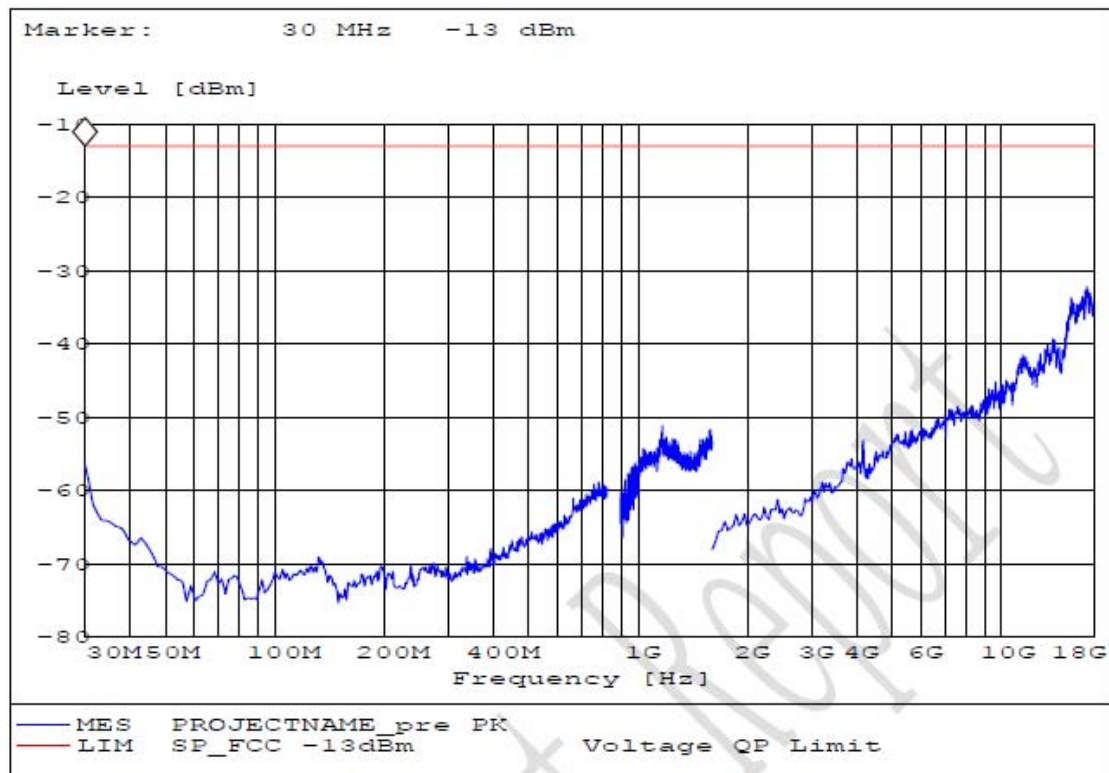
Test Results for GSM mode:



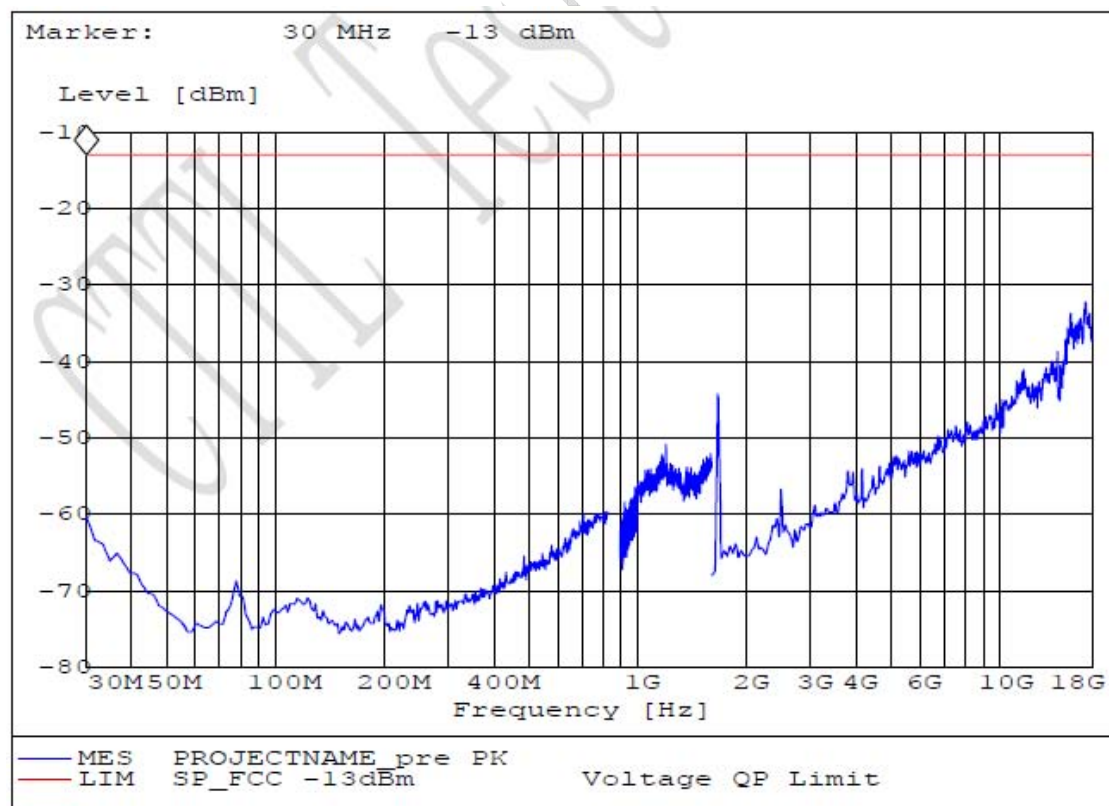
S190VF for GSM mode



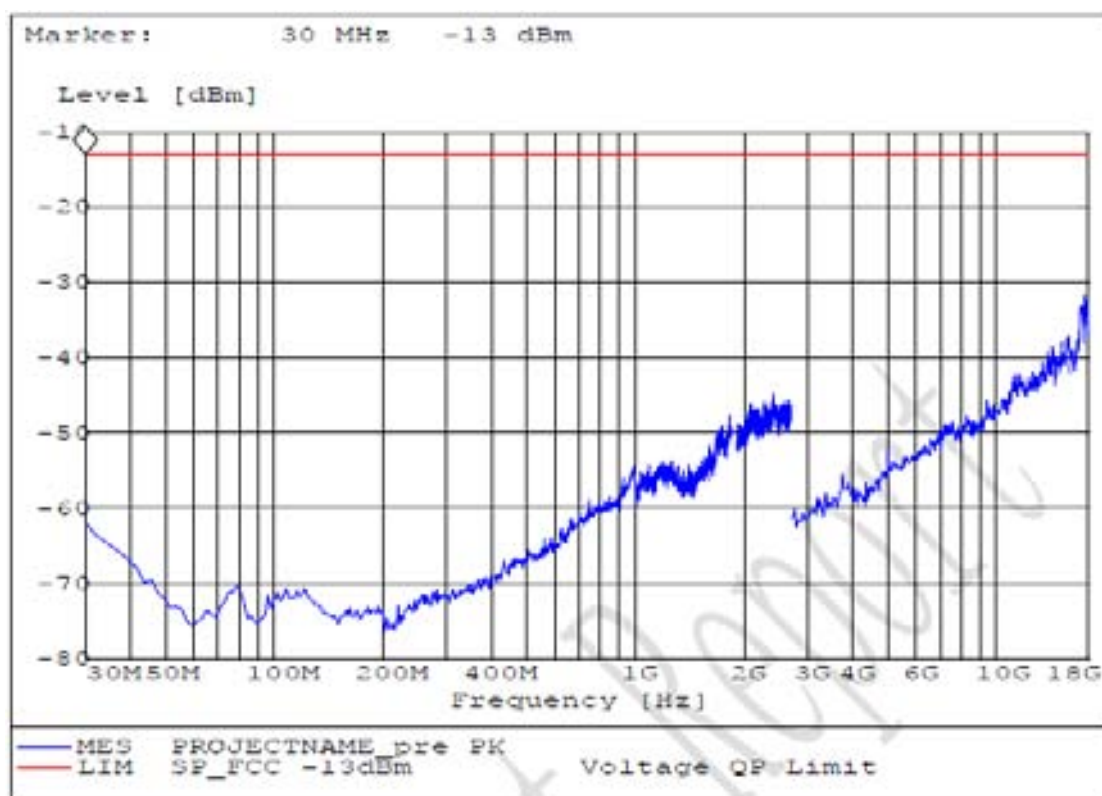
S190HF for GSM mode



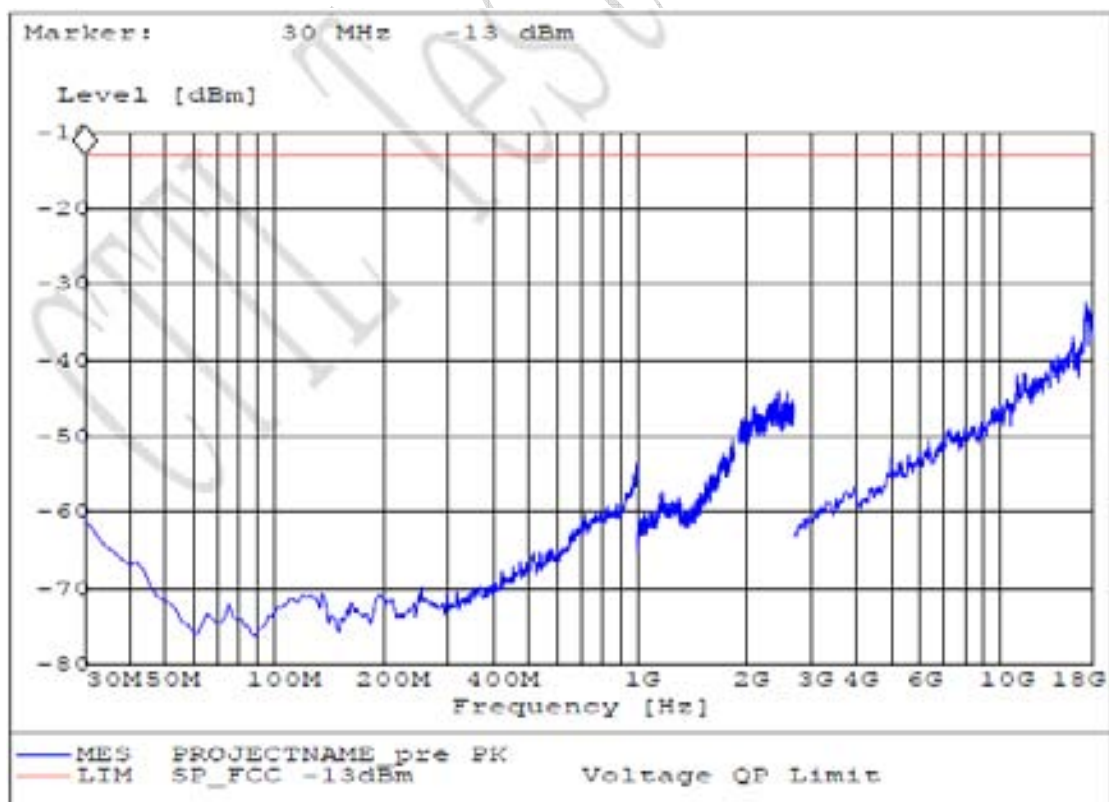
S190VT for GSM mode



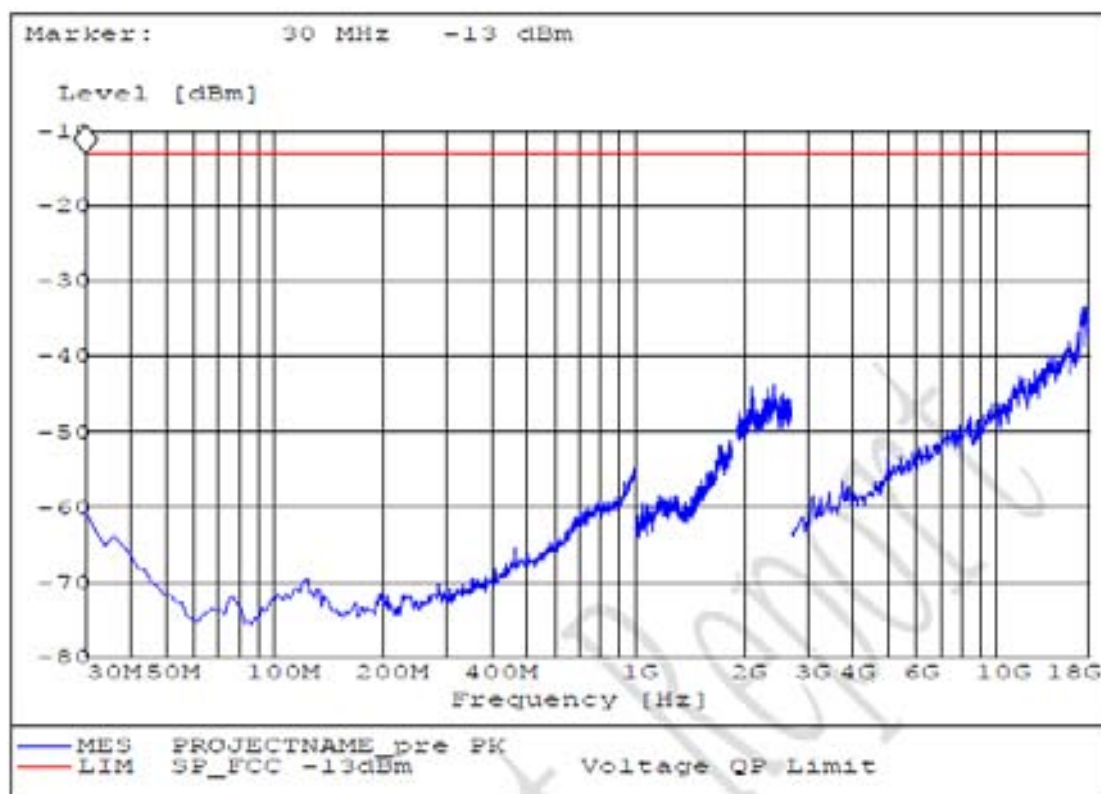
S190HT for GSM mode



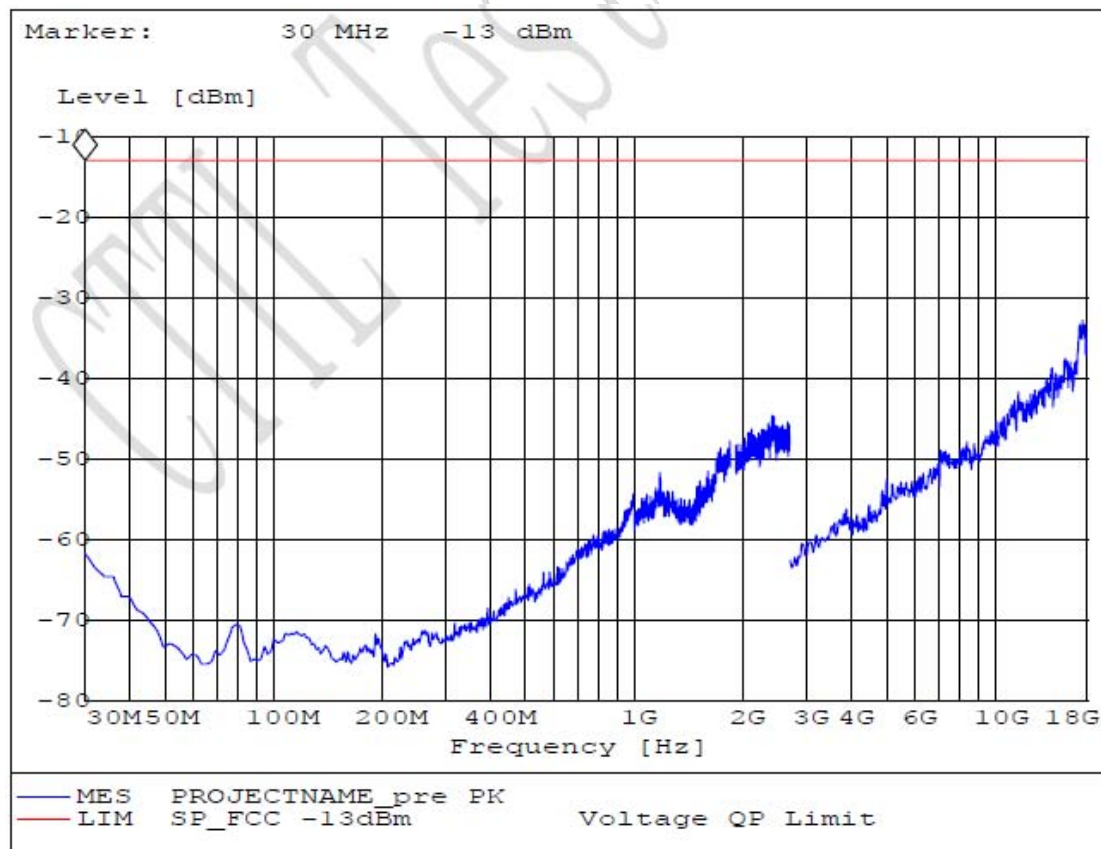
S661VF for GSM mode



S661HF for GSM mode

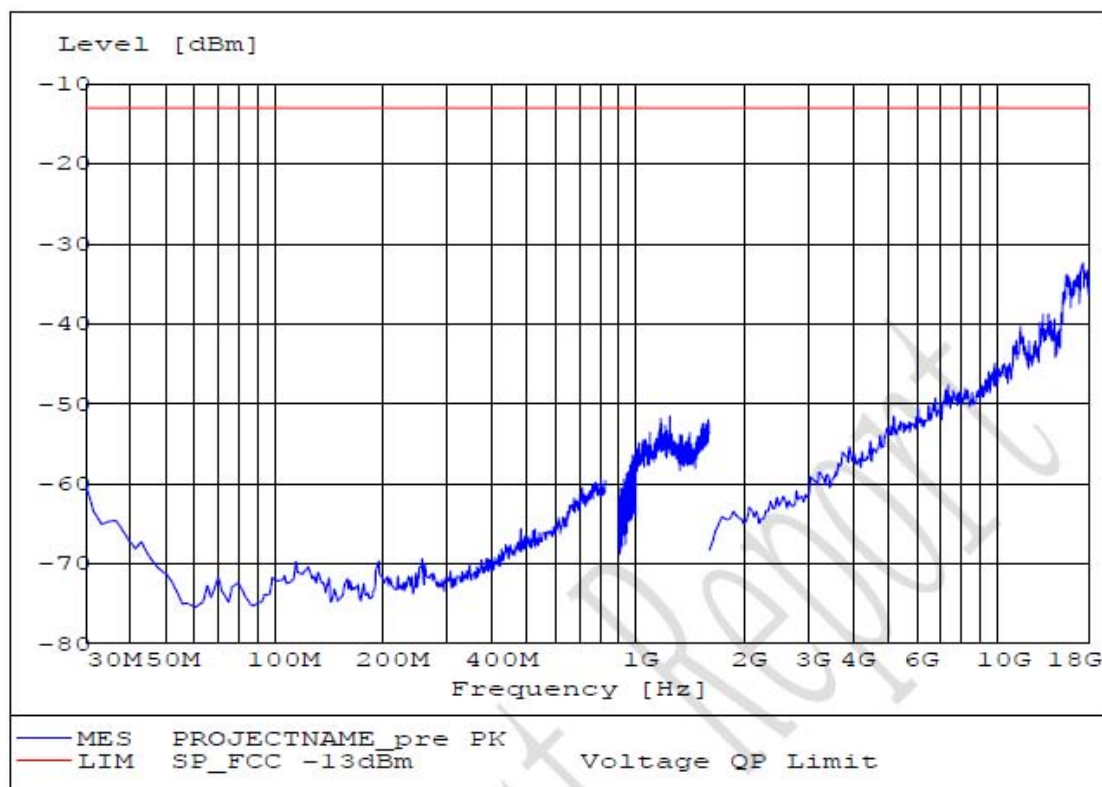


S661VT for GSM mode

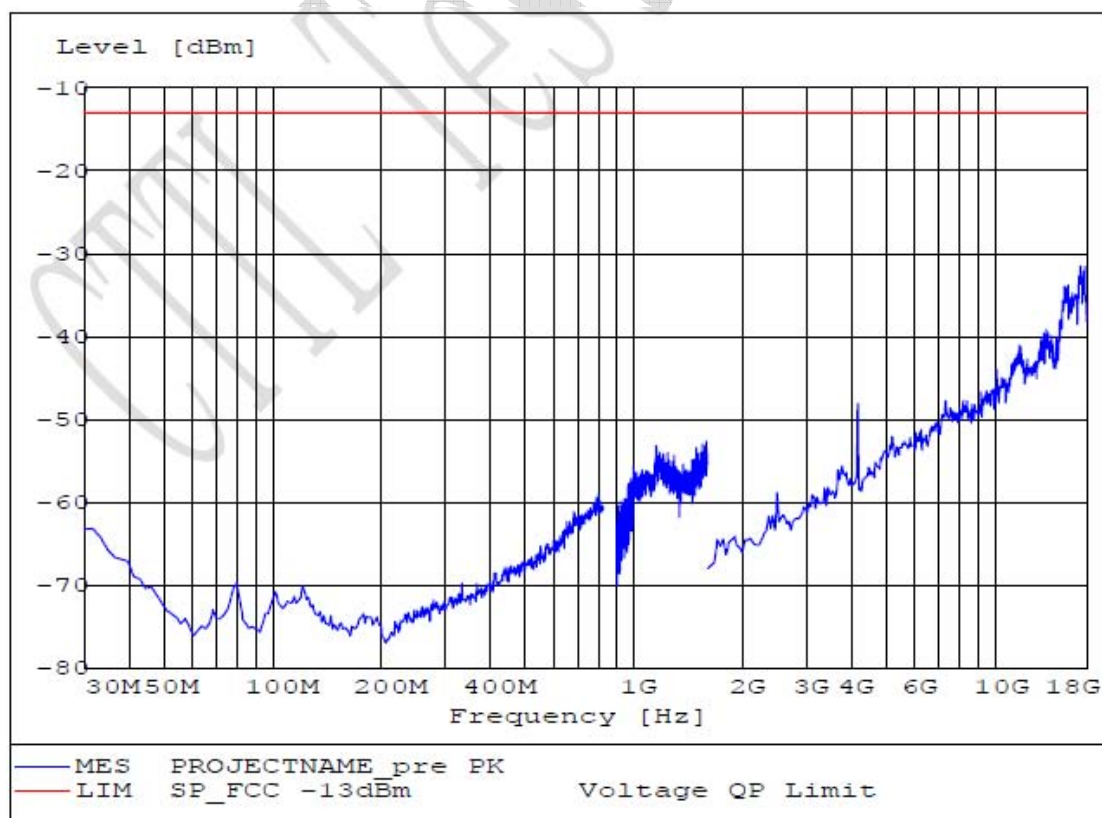


S661HT for GSM mode

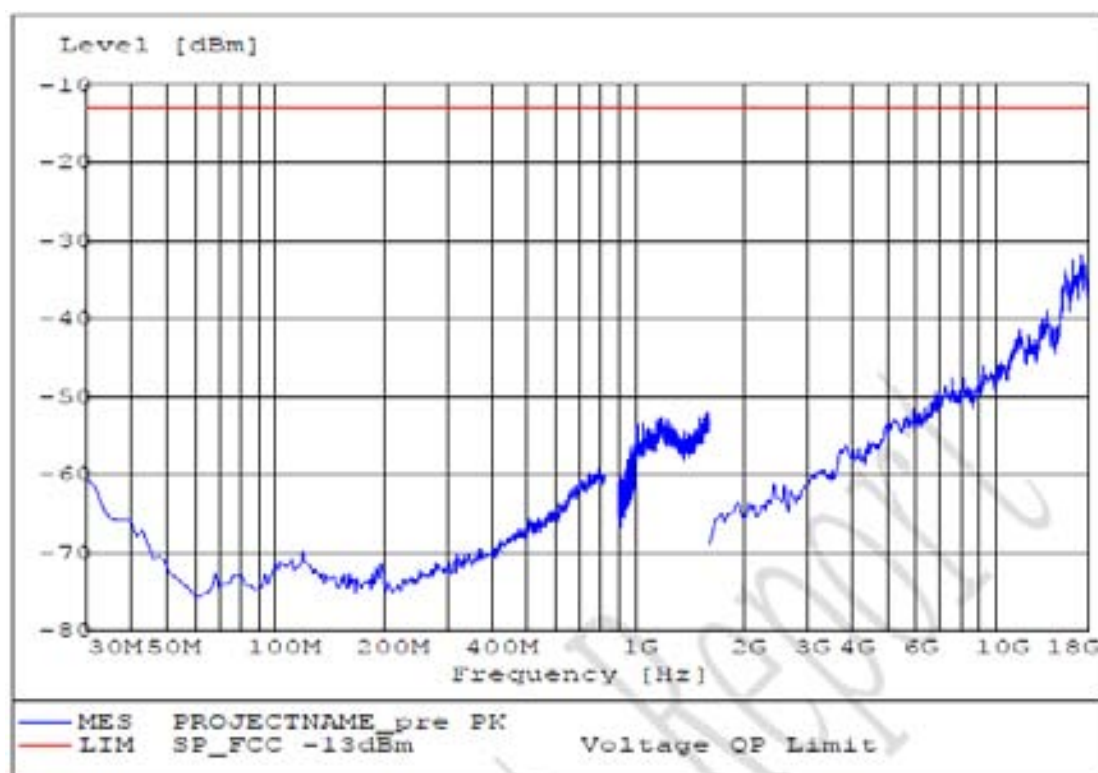
Test Results for GPRS mode:



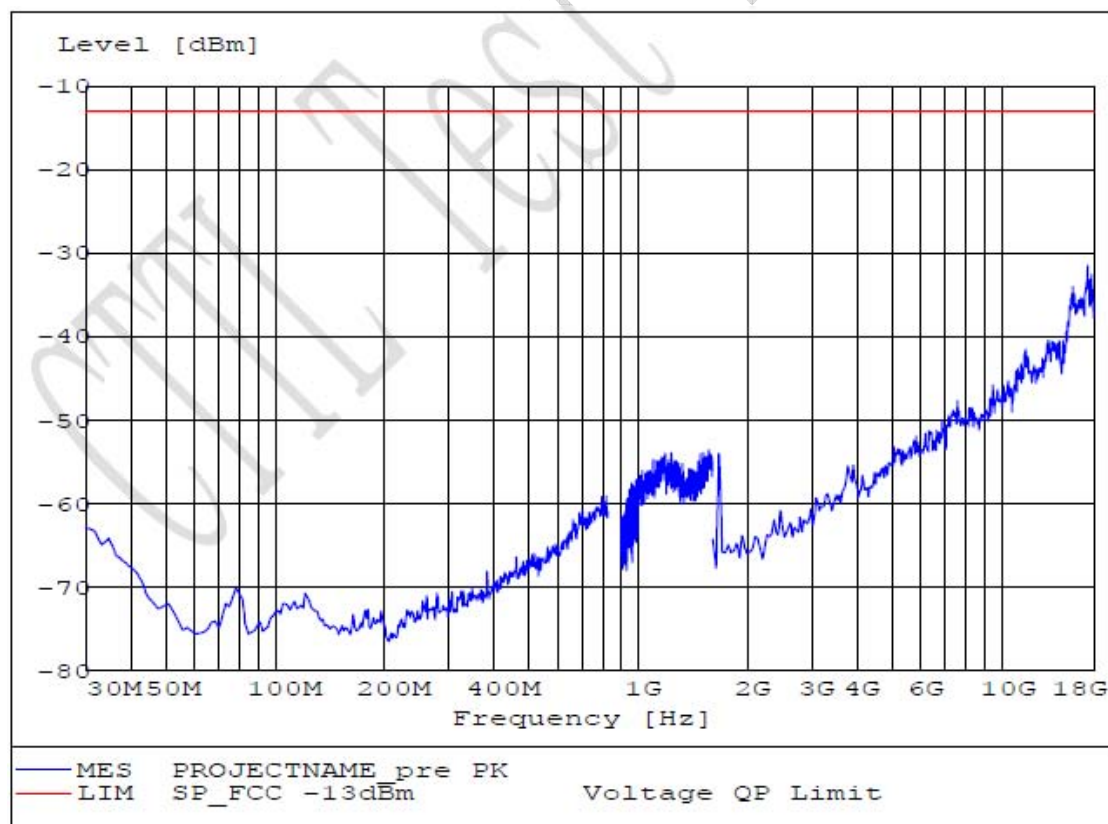
S190VF for GPRS mode



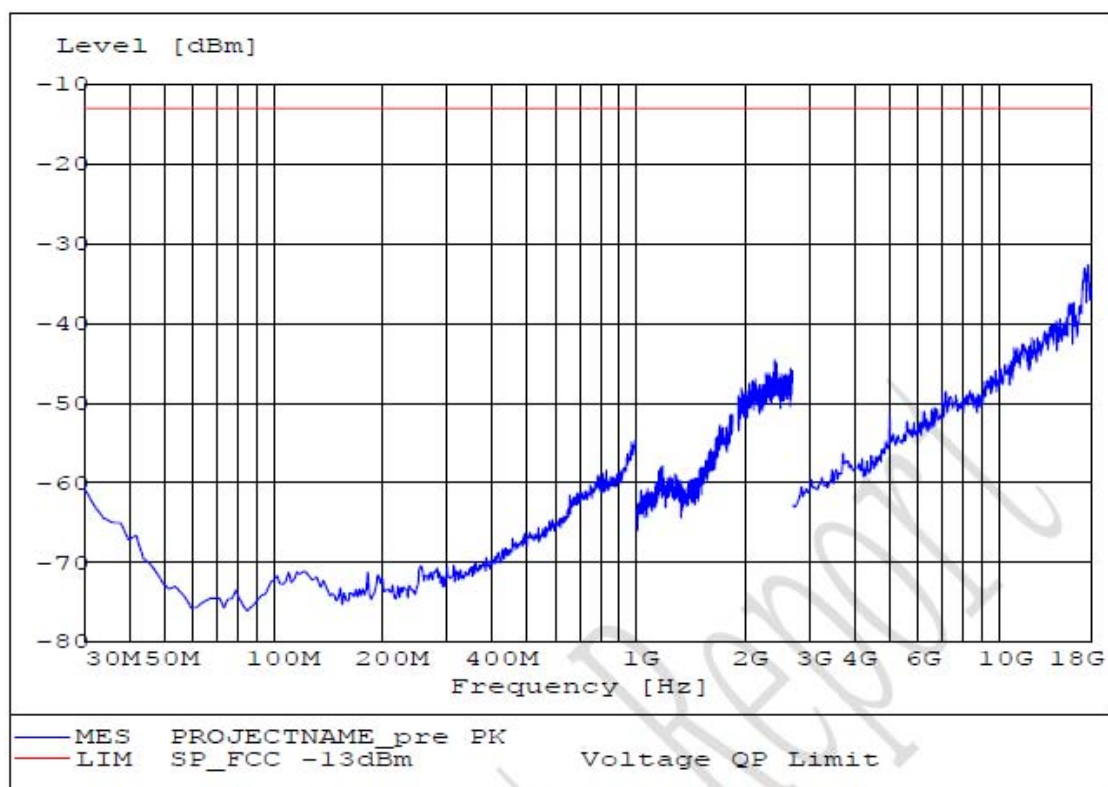
S190HF for GPRS mode



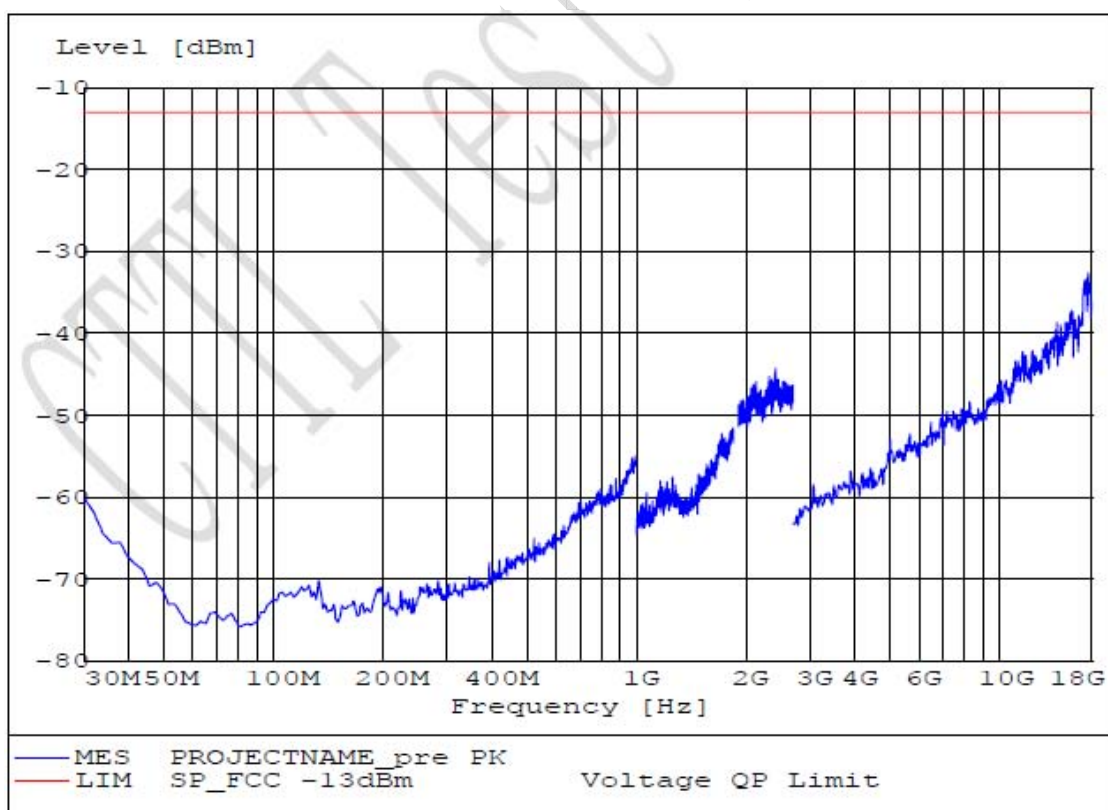
S190VT for GPRS mode



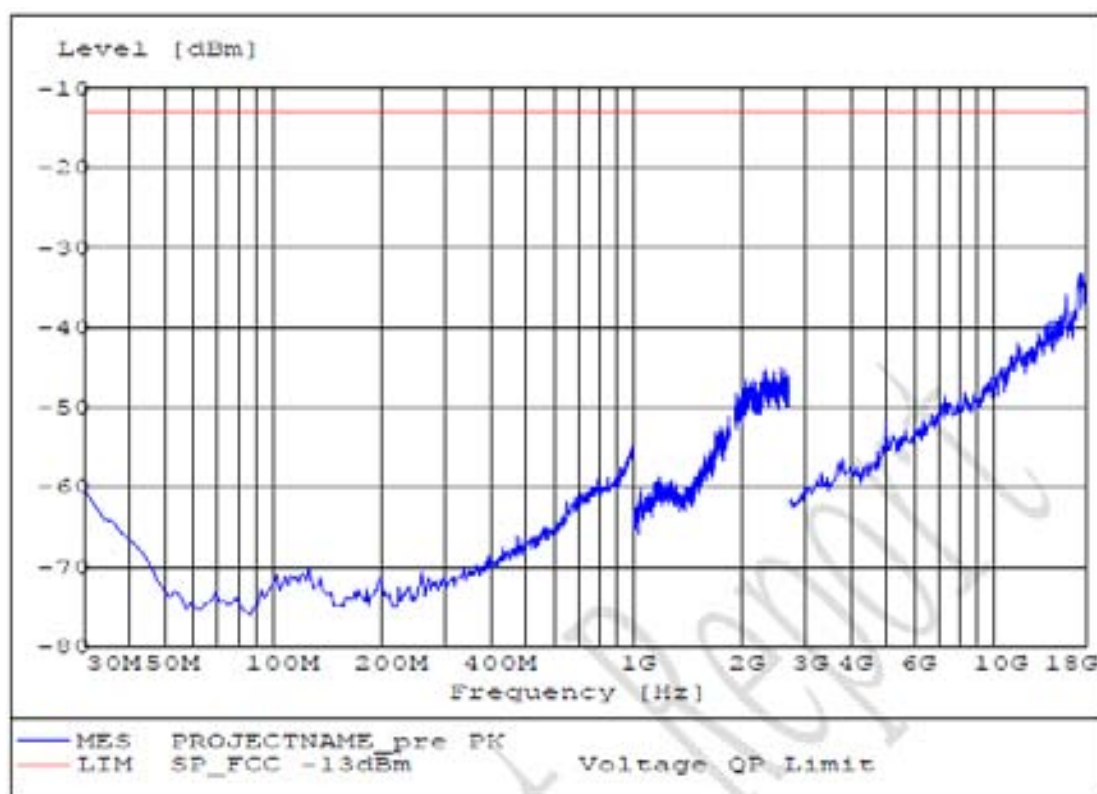
S190HT for GPRS mode



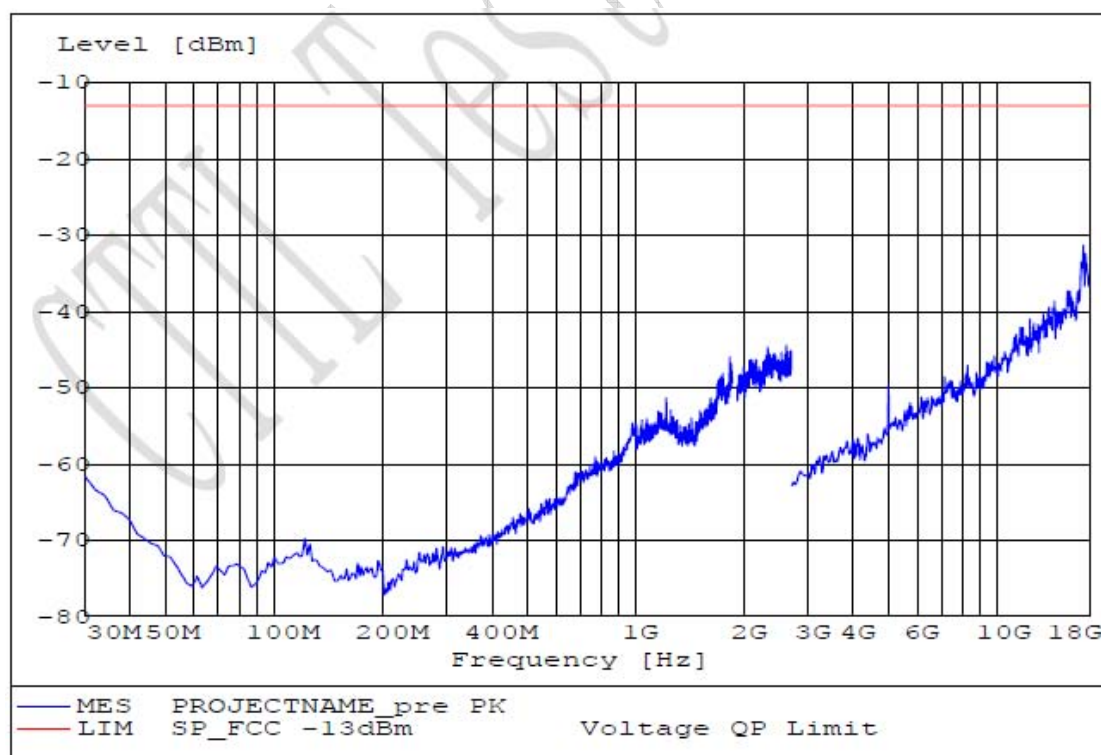
S661VF for GPRS mode



S661HF for GPRS mode

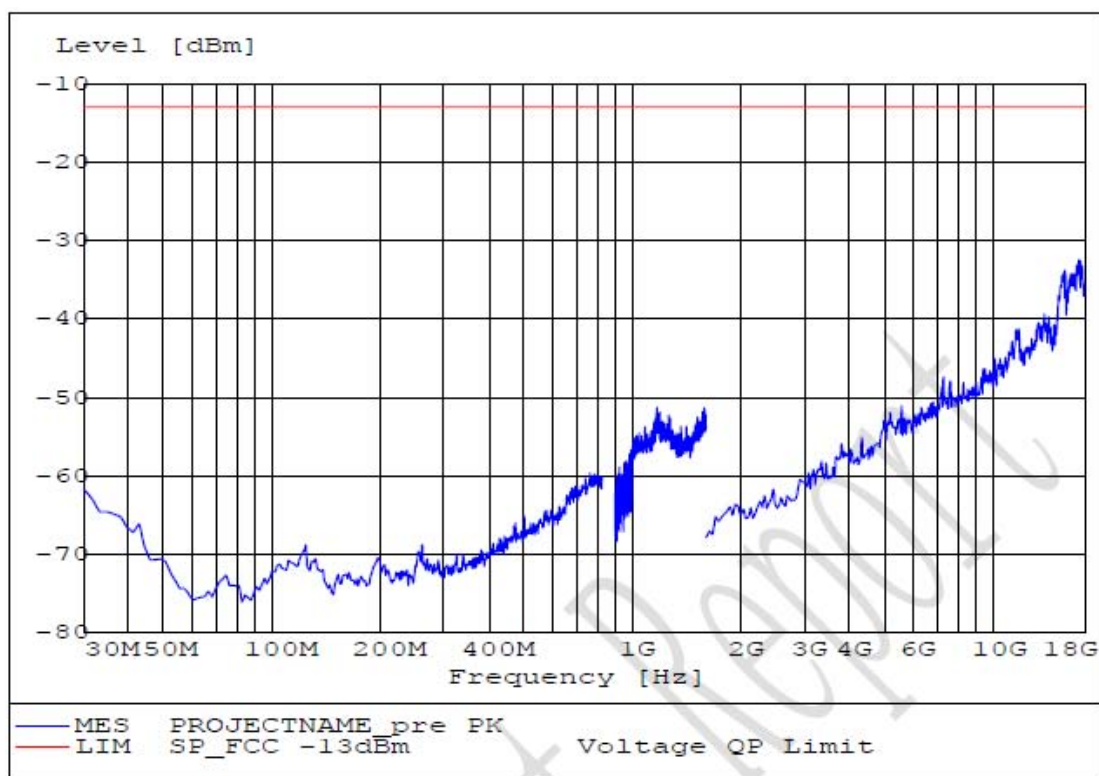


S661VT for GPRS mode

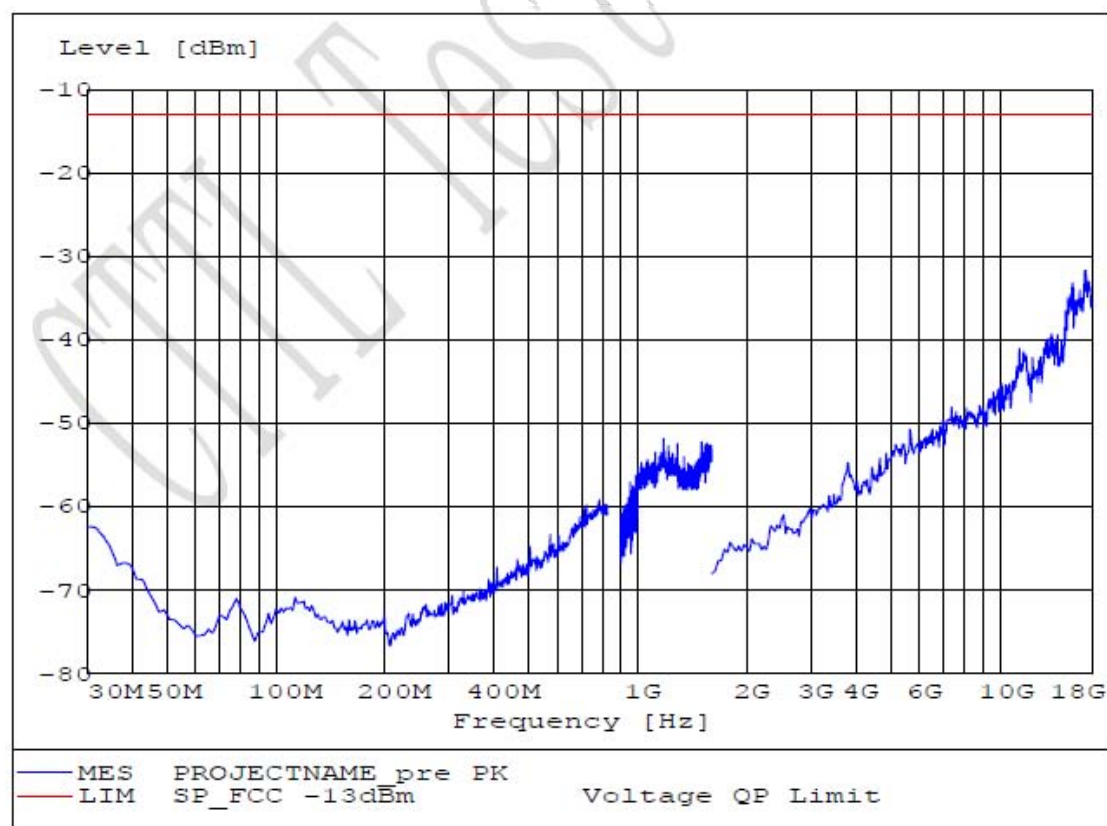


S661HT for GPRS mode

Test Results for EGPRS mode:



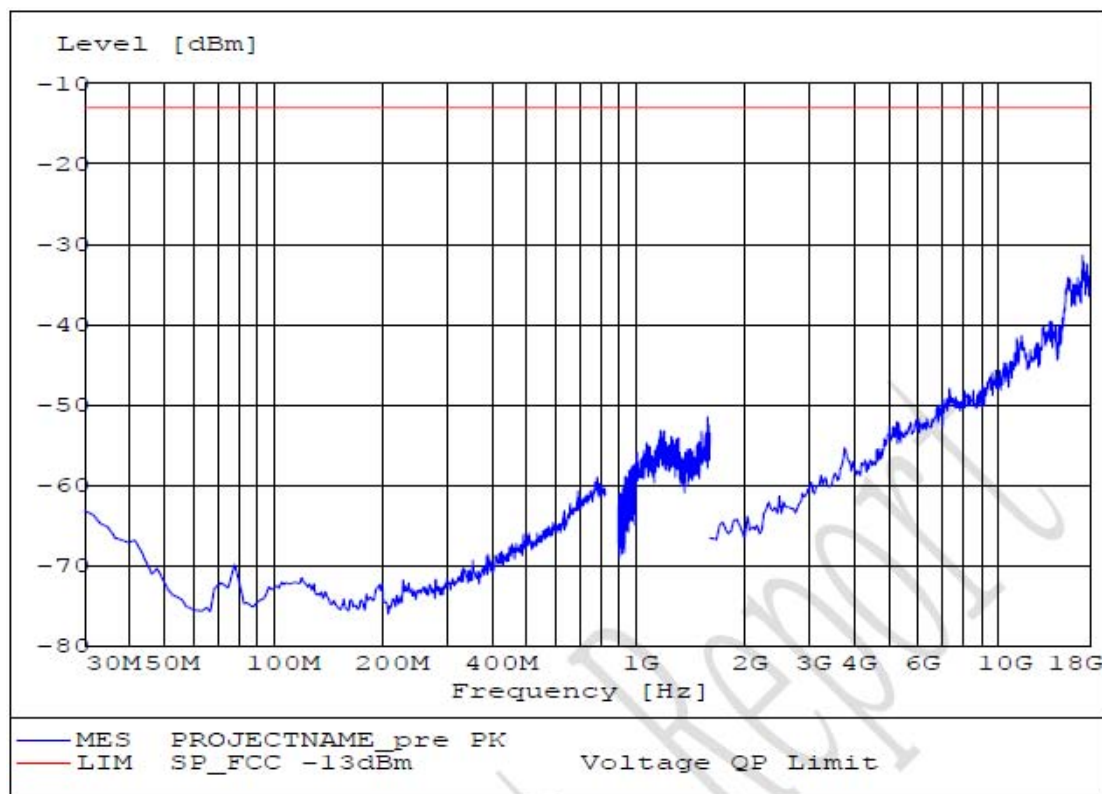
S190VF for EGPRS mode



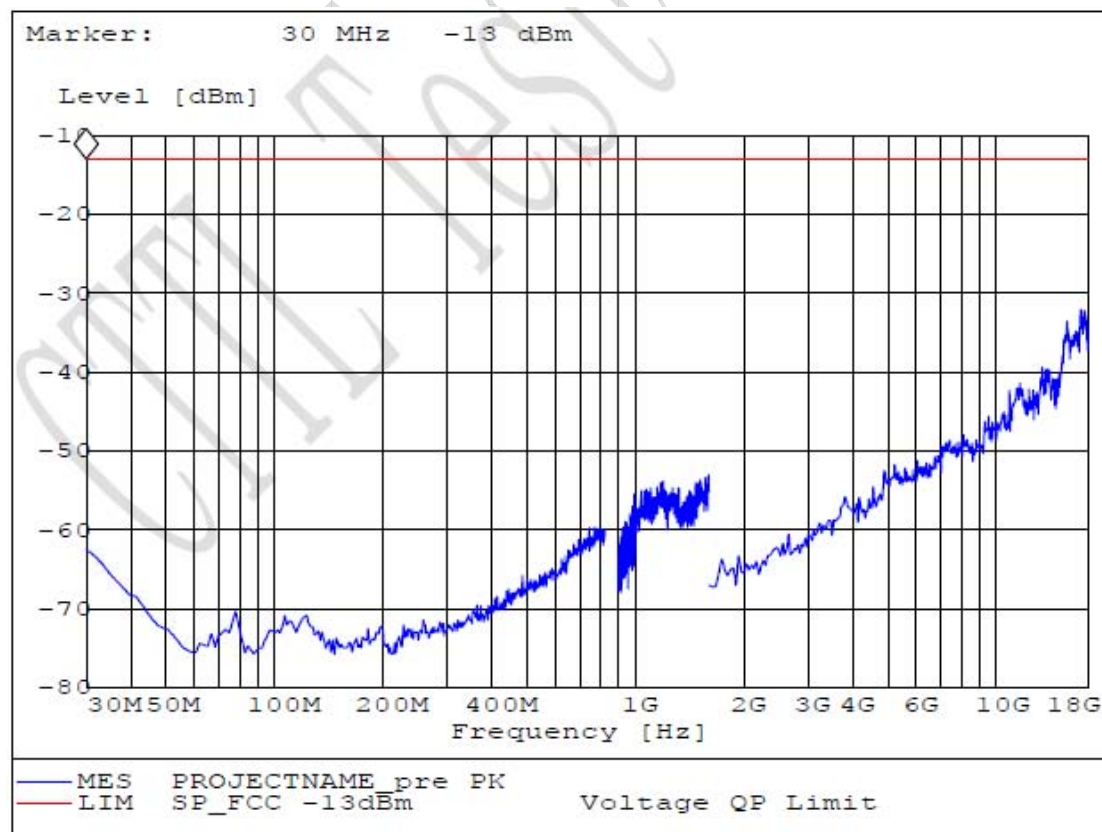
S190HF for EGPRS mode

FCC Parts 2, 22, 24
Equipment: 810-F

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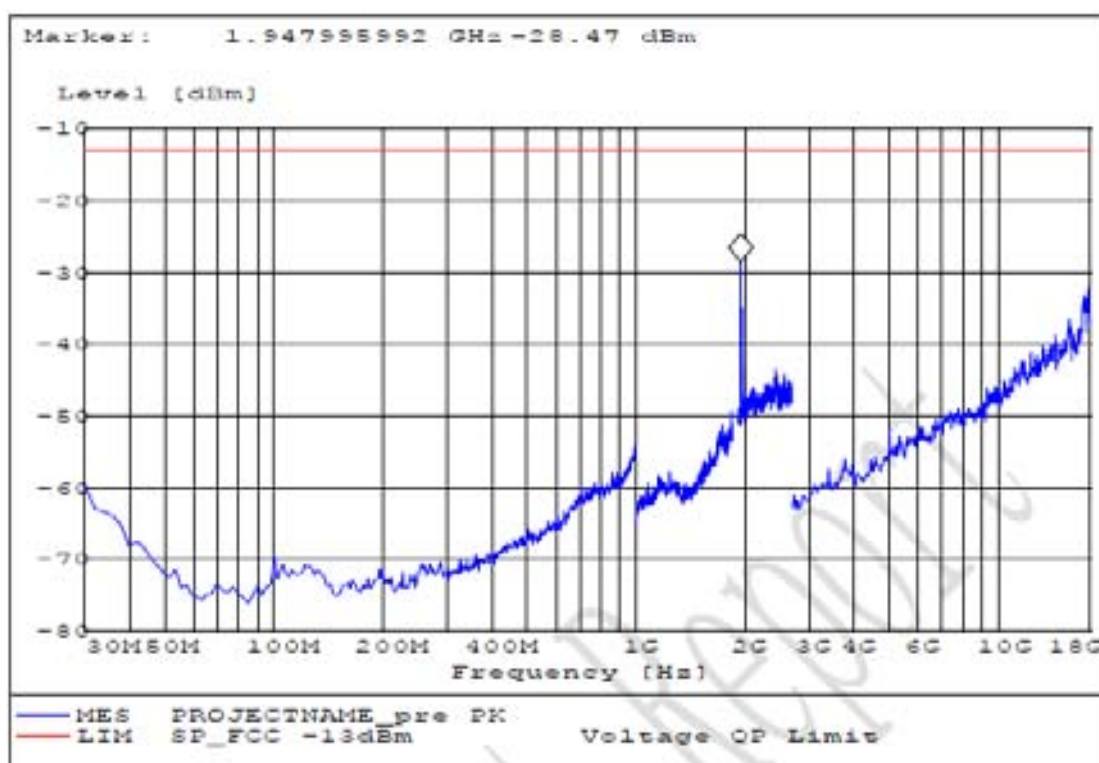
S190VT for EGPRS mode



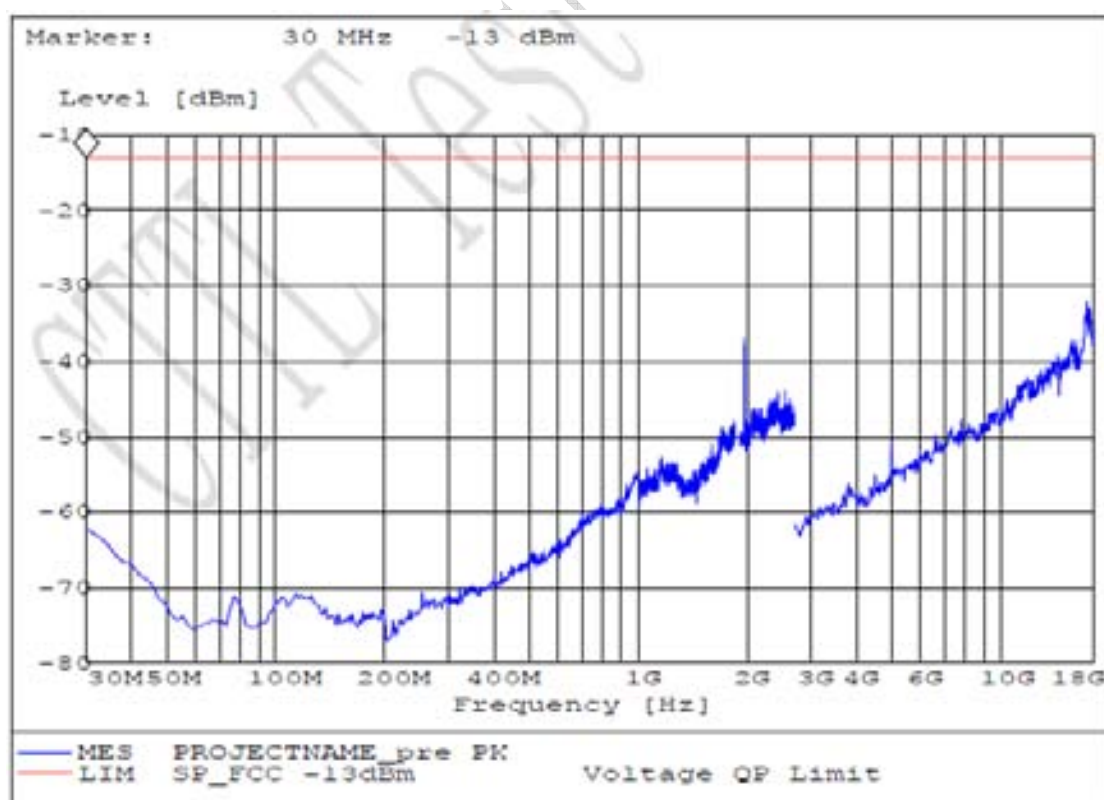
S190HT for EGPRS mode

FCC Parts 2, 22, 24
Equipment: 810-F

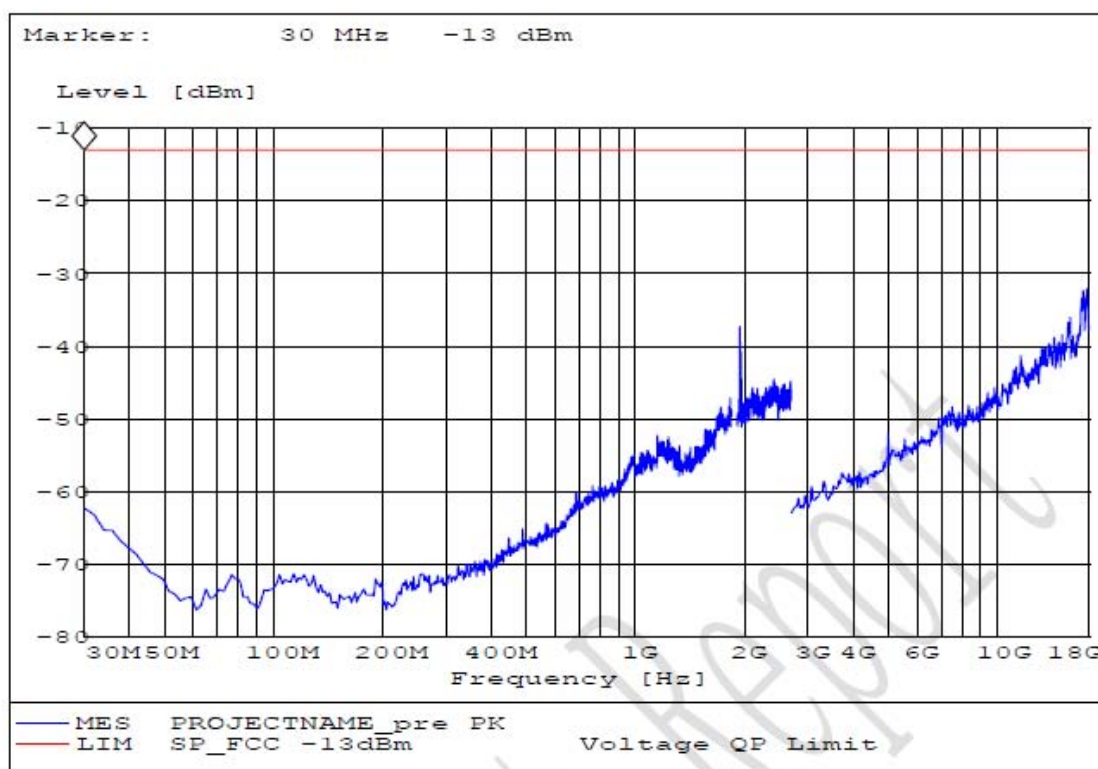
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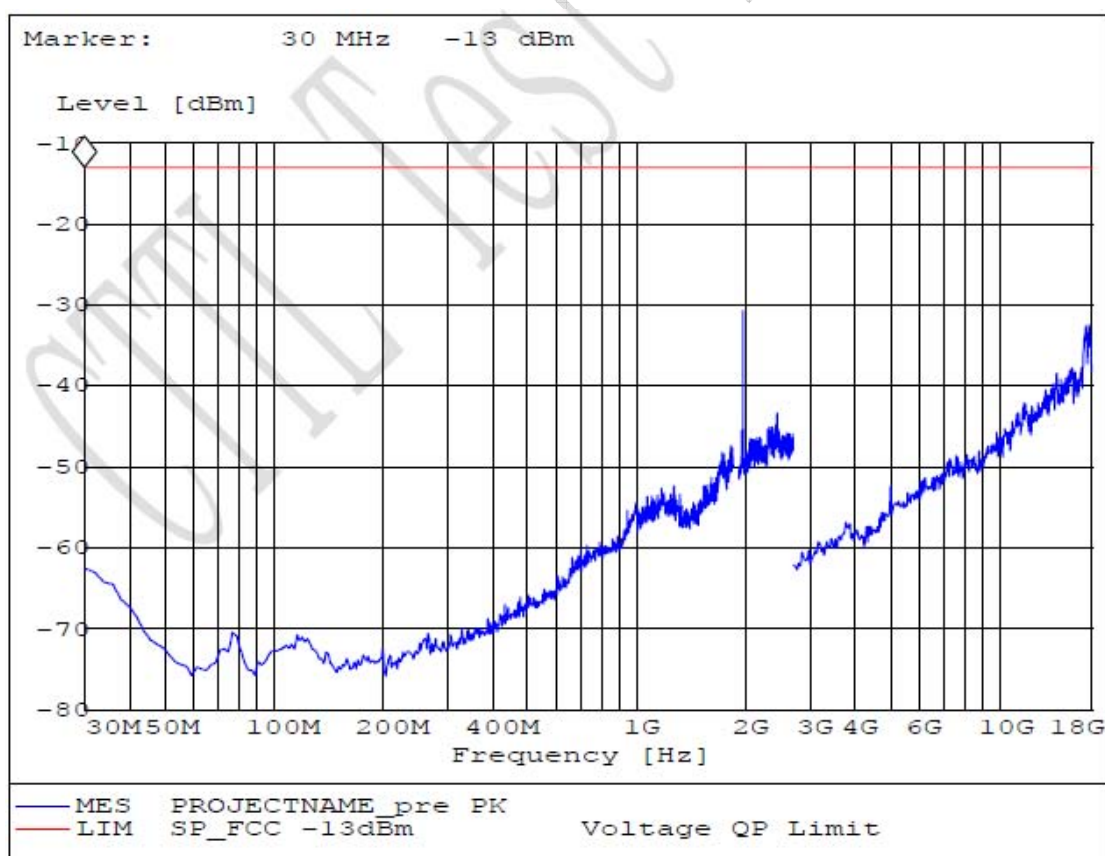
S661VF for EGPRS mode



S661HF for EGPRS mode

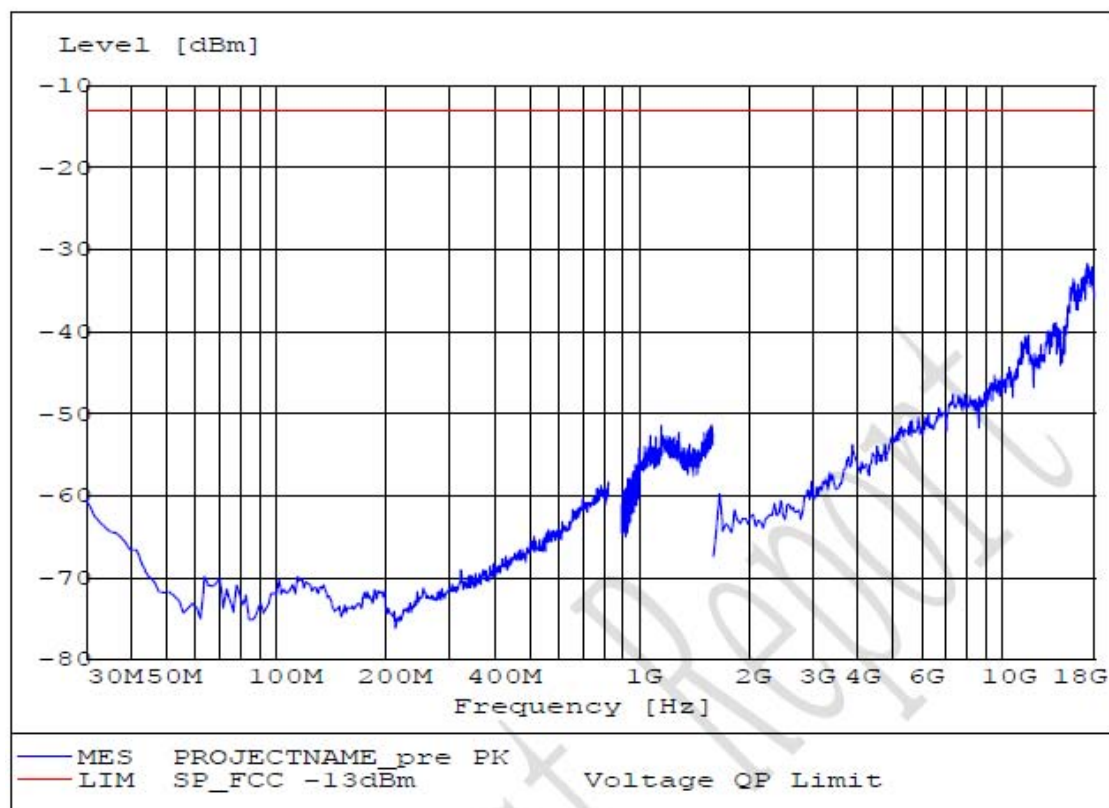


S661VT for EGPRS mode

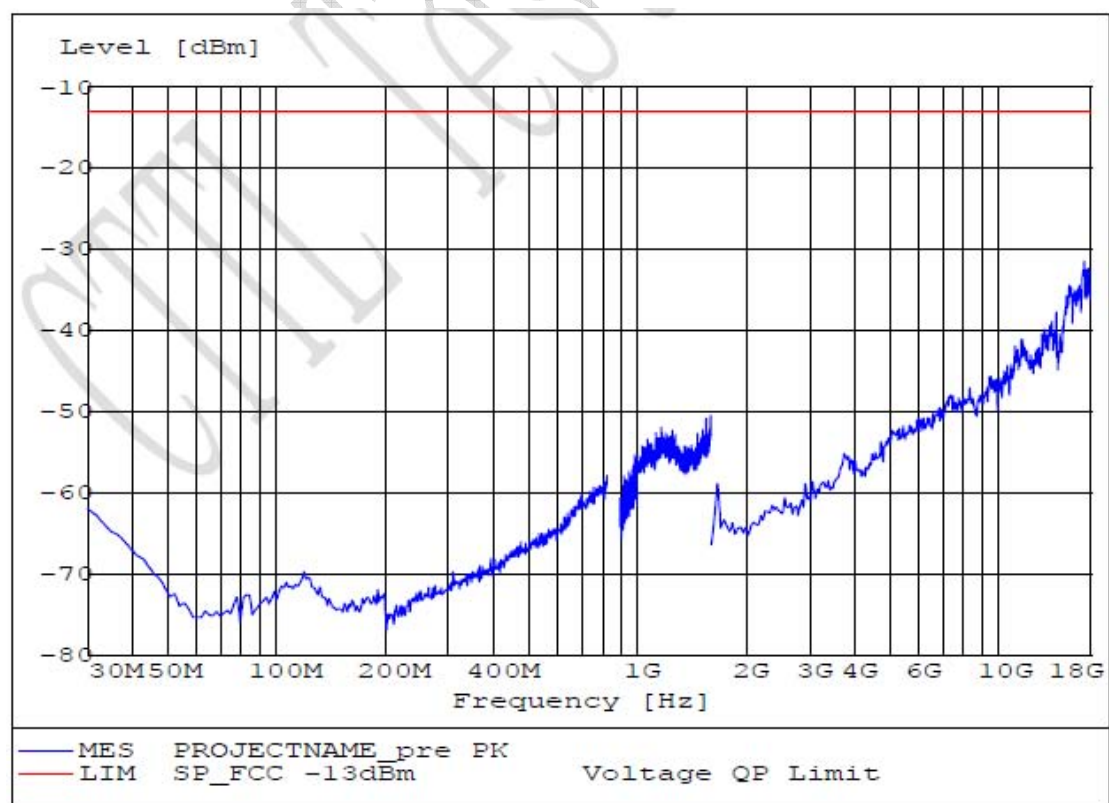


S661HT for EGPRS mode

Test Results for WCDMA mode



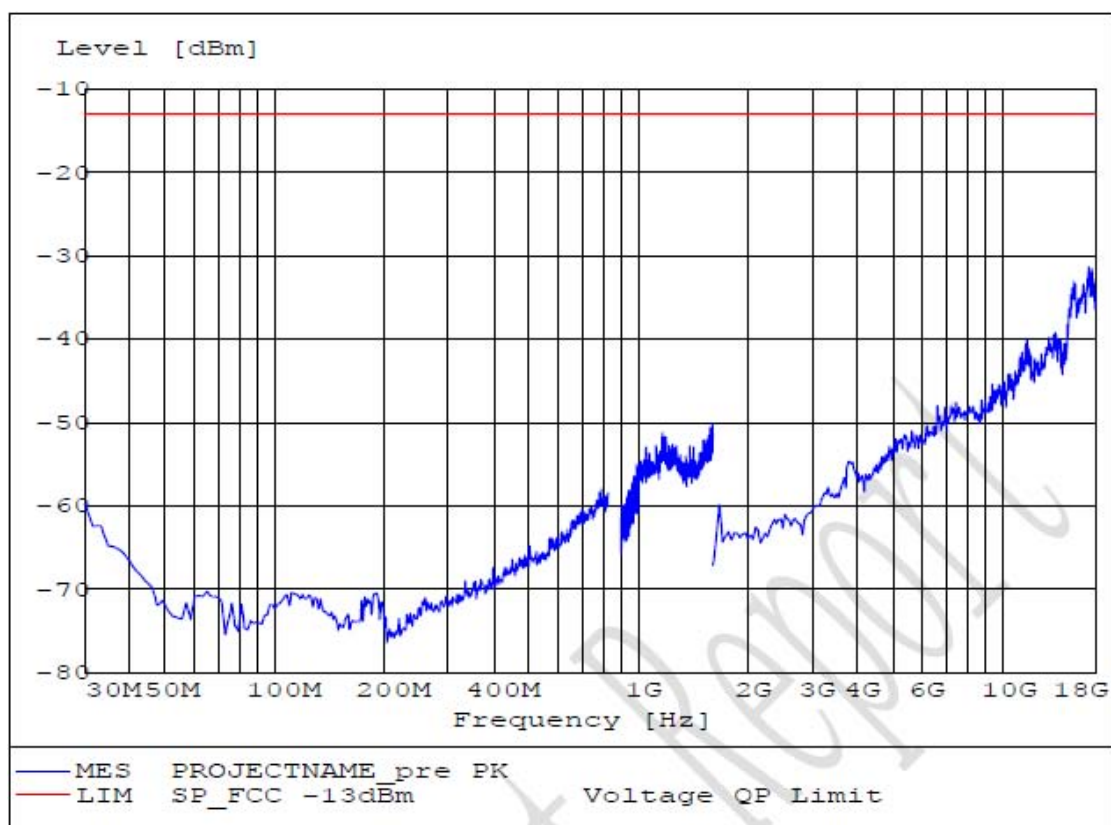
S4175vf for WCDMA mode



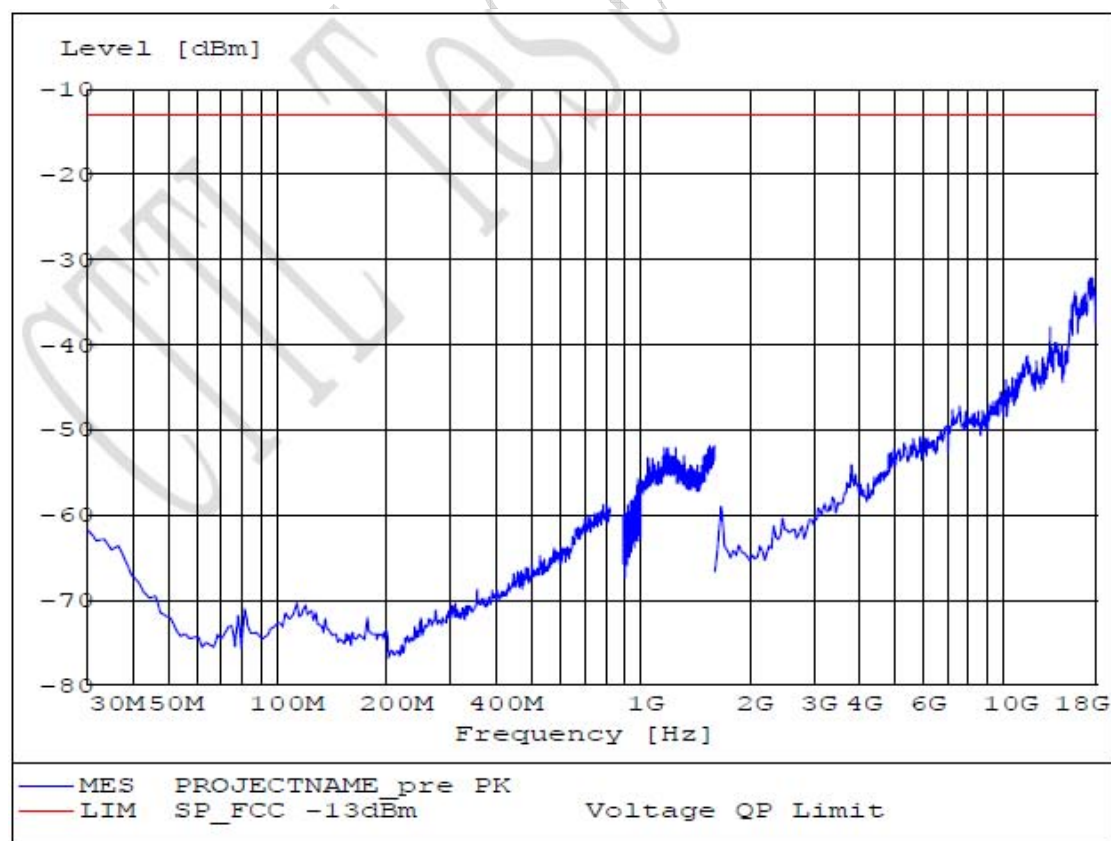
S4175hf for WCDMA mode

FCC Parts 2, 22, 24
Equipment: 810-F

REPORT NO.: I08GW7473-FCC-EMC



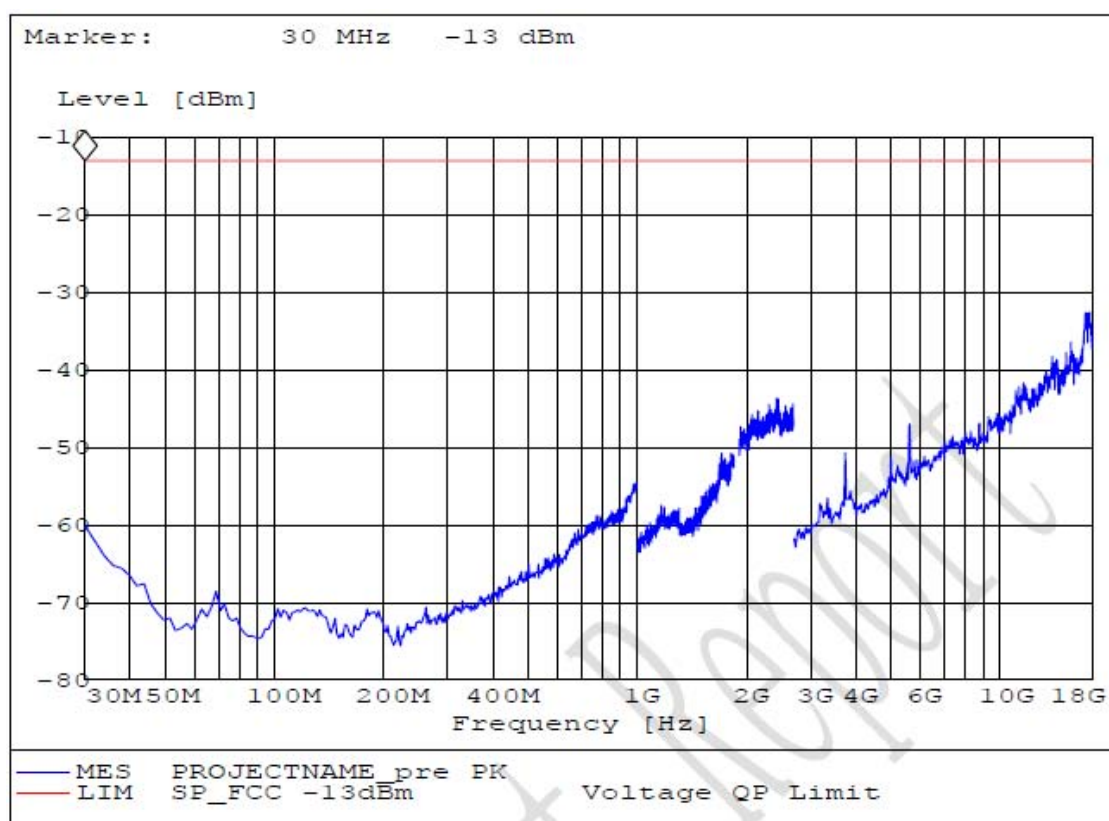
S4175vt for WCDMA mode



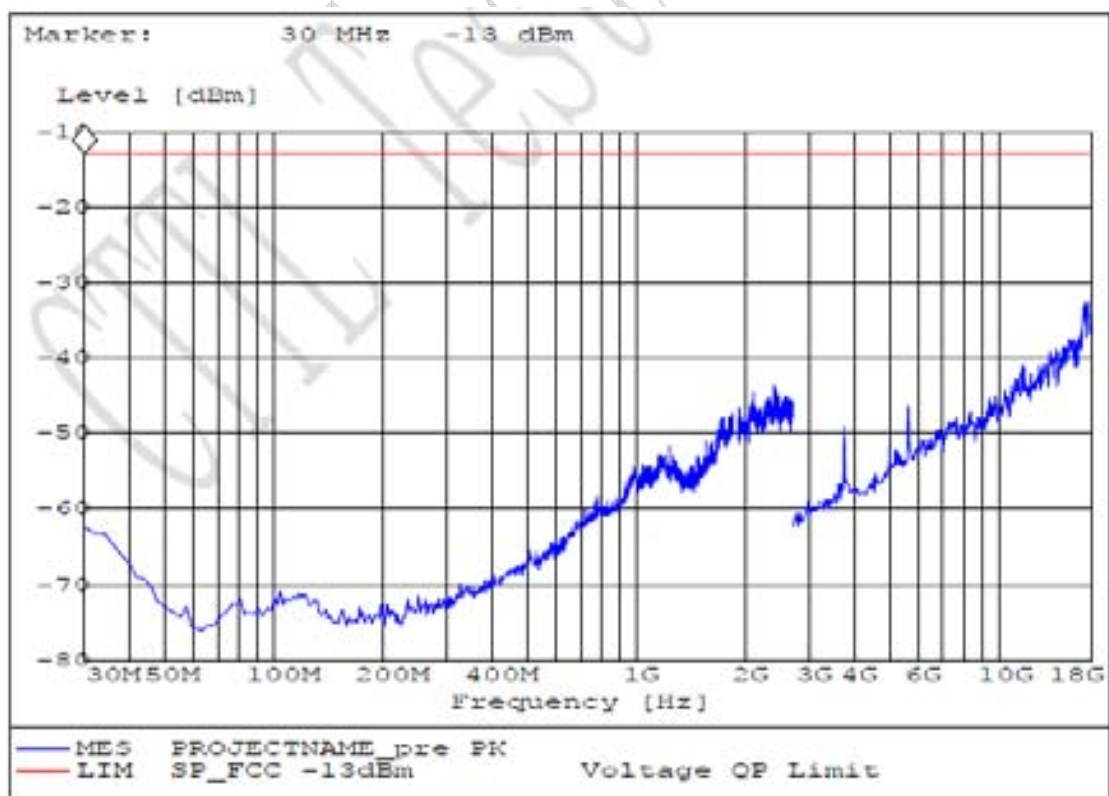
S4175ht for WCDMA mode

FCC Parts 2, 22, 24
Equipment: 810-F

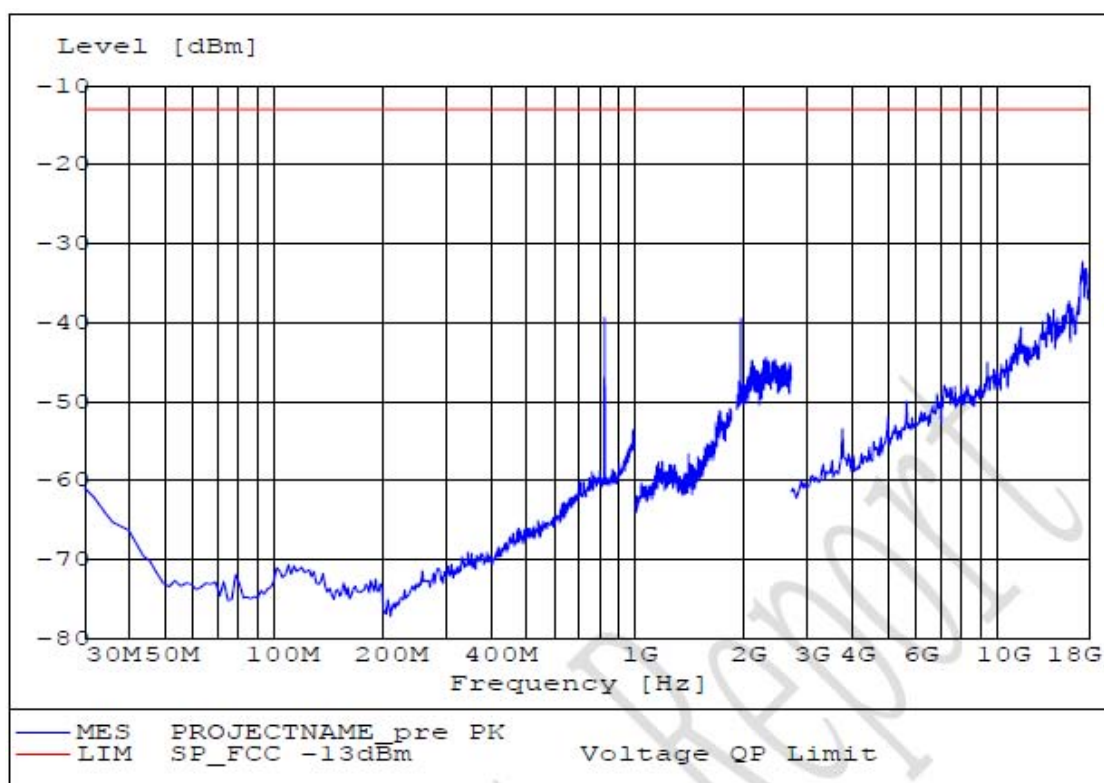
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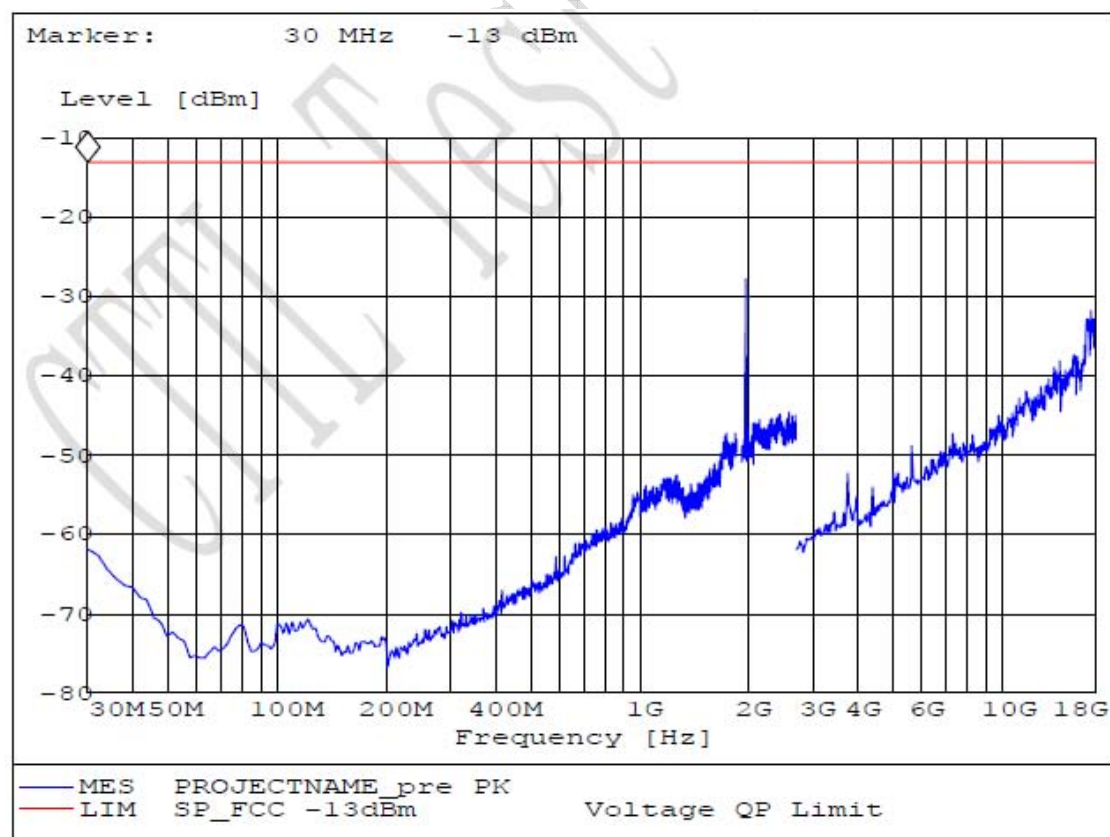
S9400vf for WCDMA mode



S9400hf for WCDMA mode

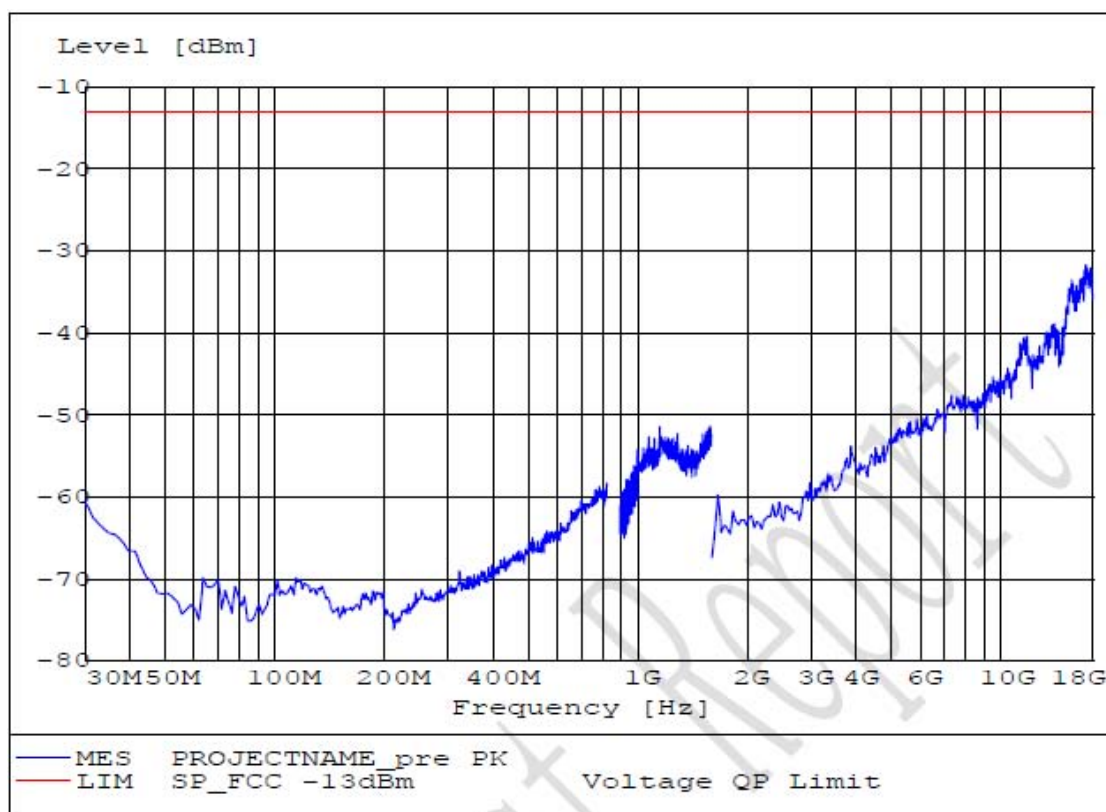


S9400vt for WCDMA mode

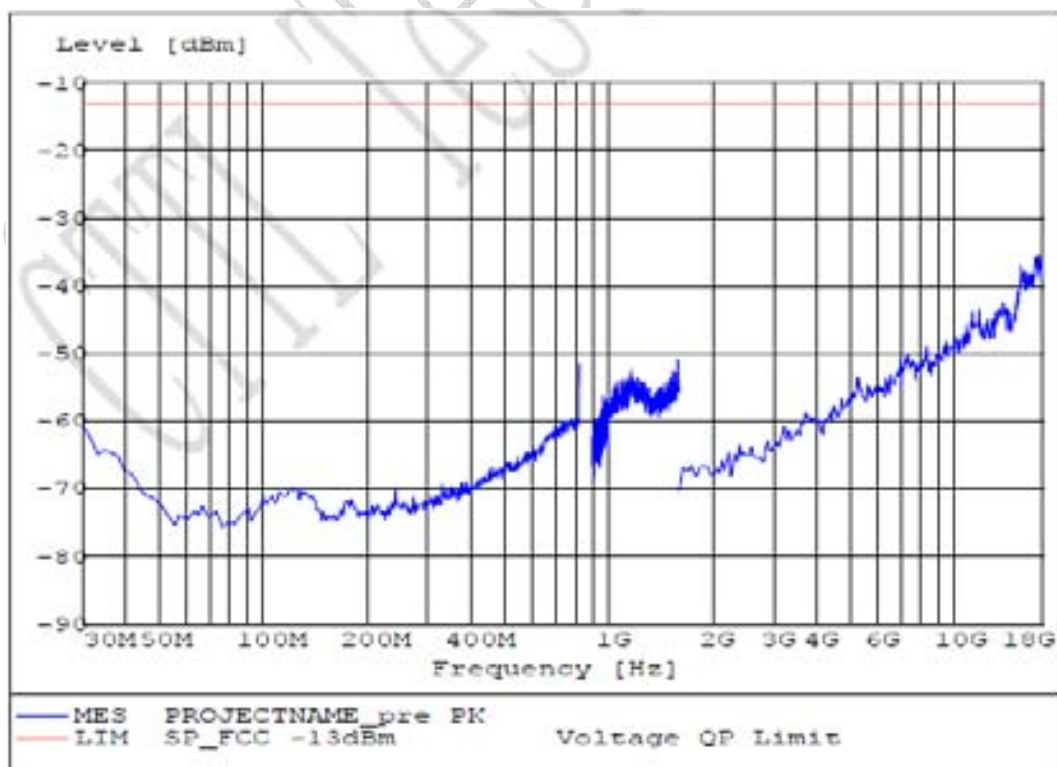


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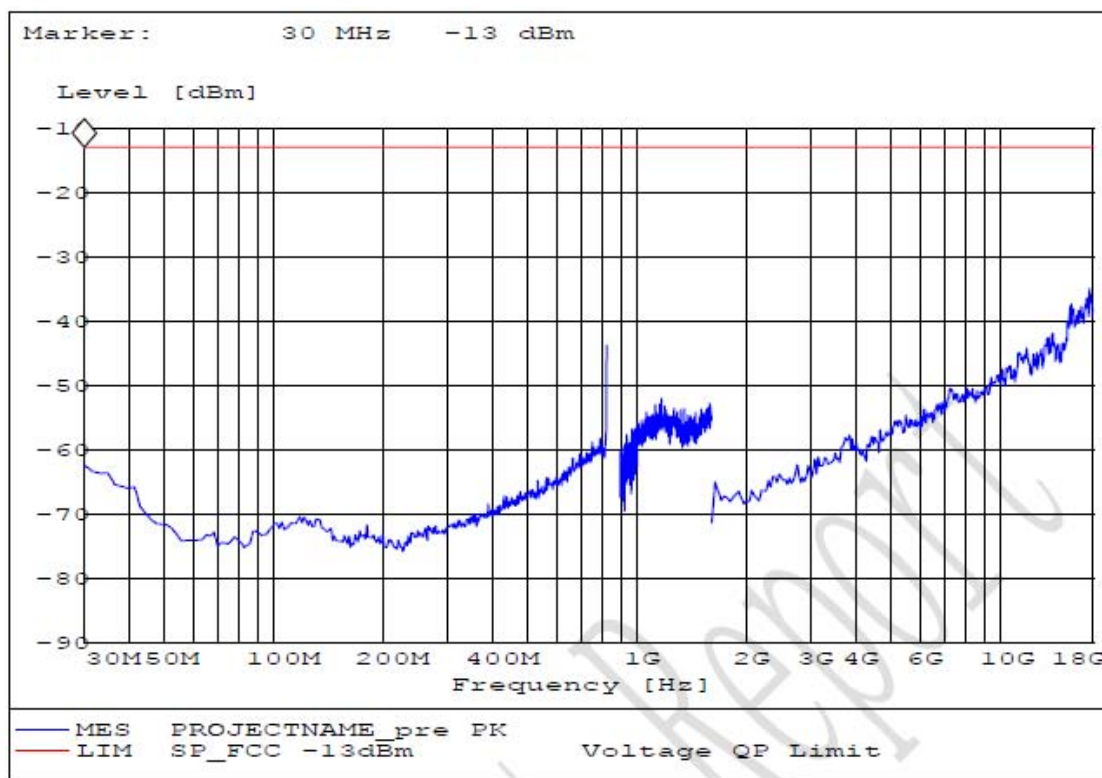
Test Results for HSDPA mode



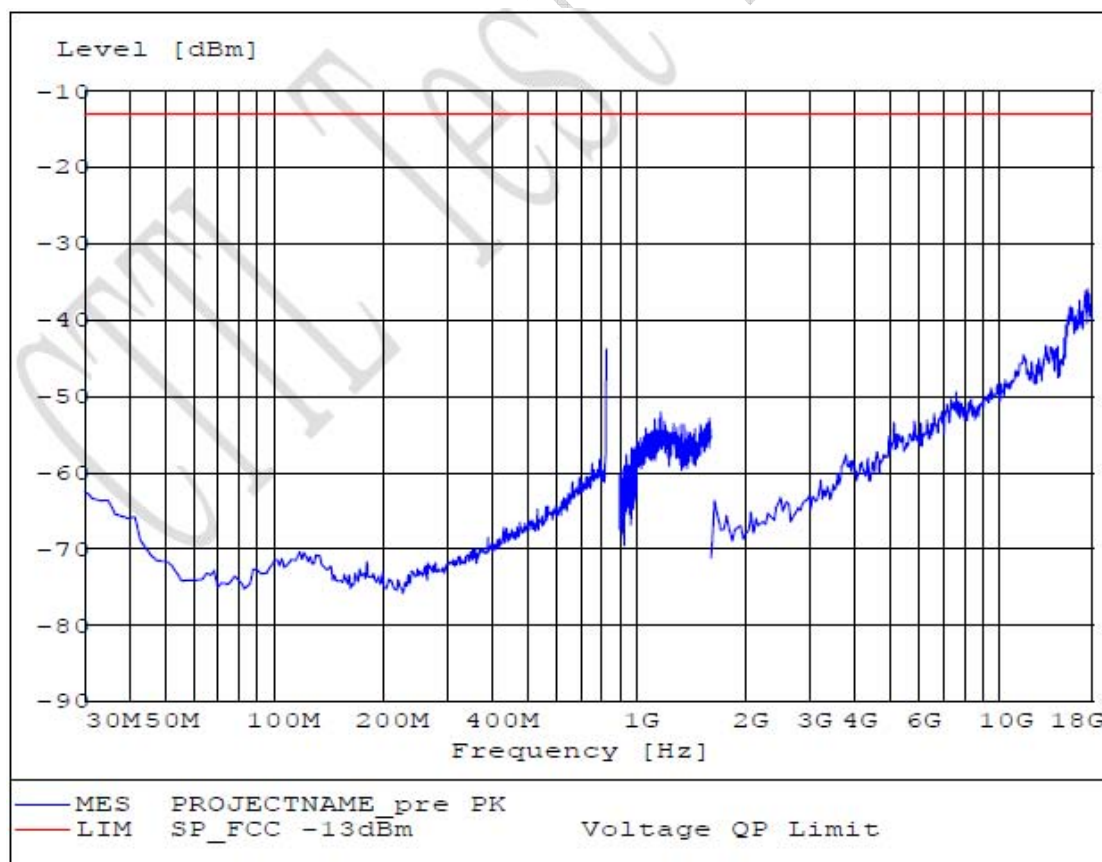
S4175vf for HSDPA mode



S4175hf for HSDPA mode



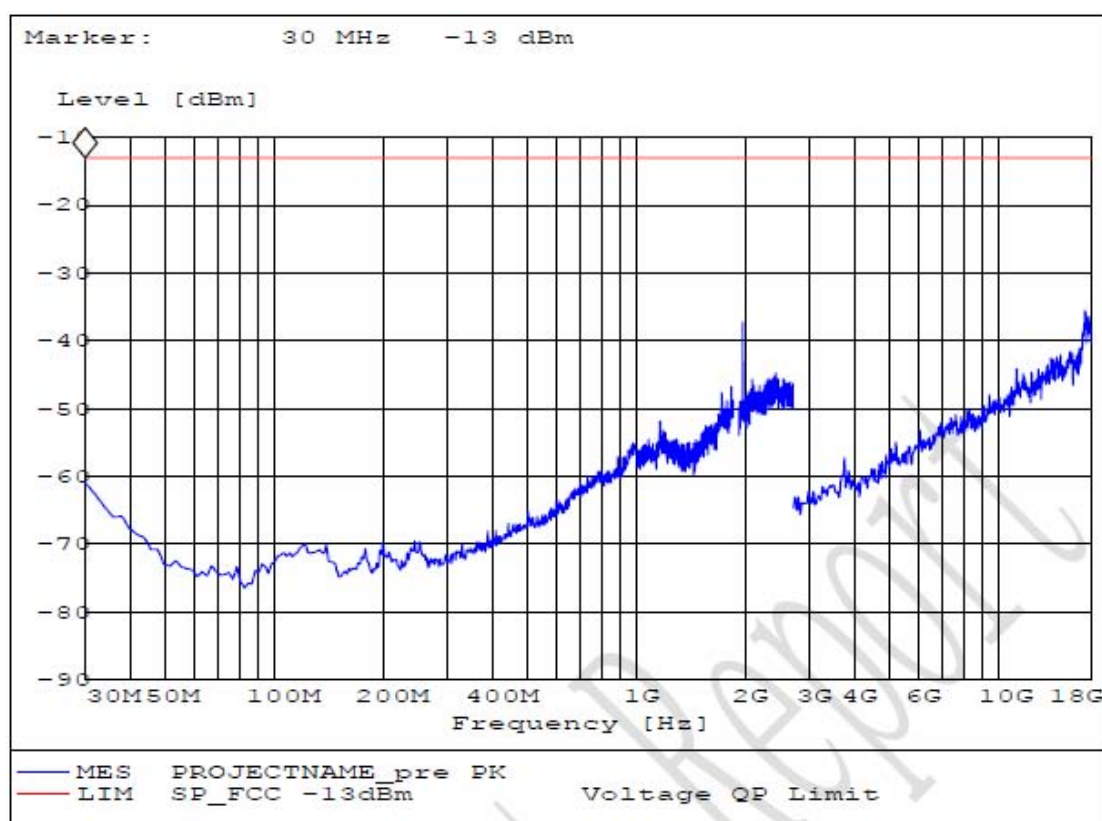
S4175vt for HSDPA mode



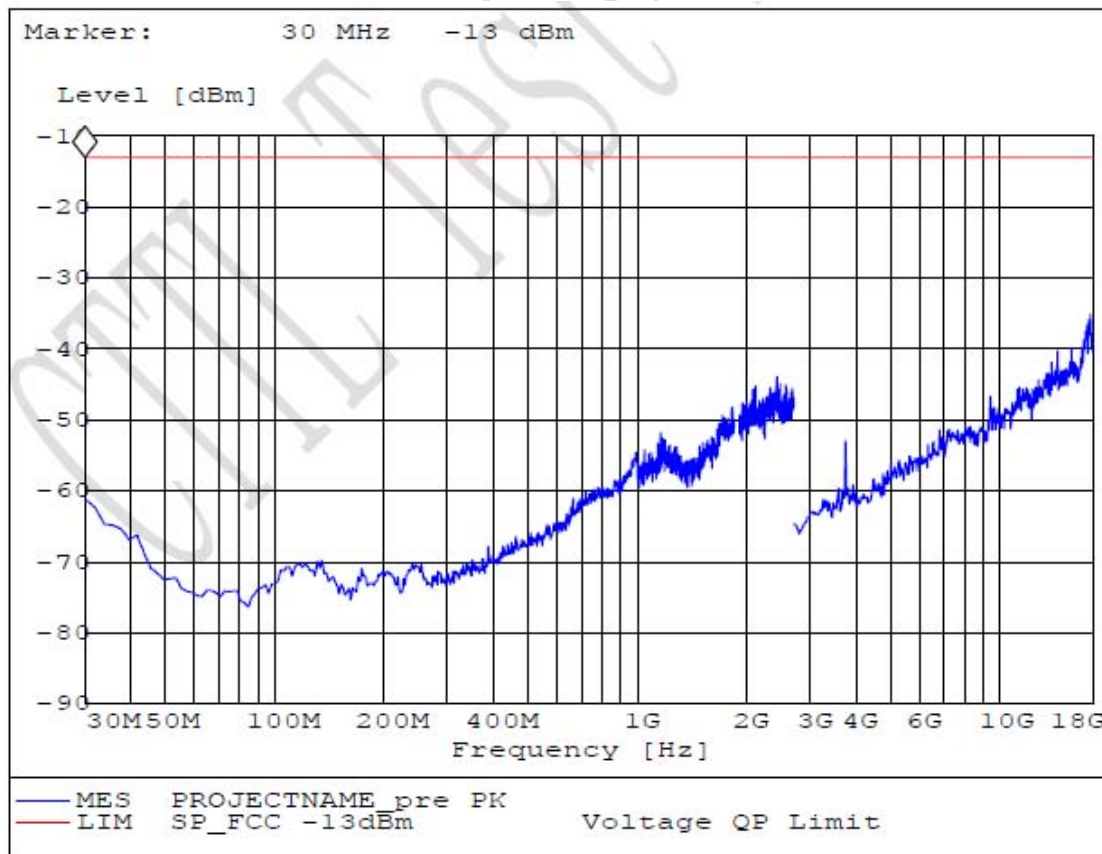
S4175ht for HSDPA mode

FCC Parts 2, 22, 24
Equipment: 810-F

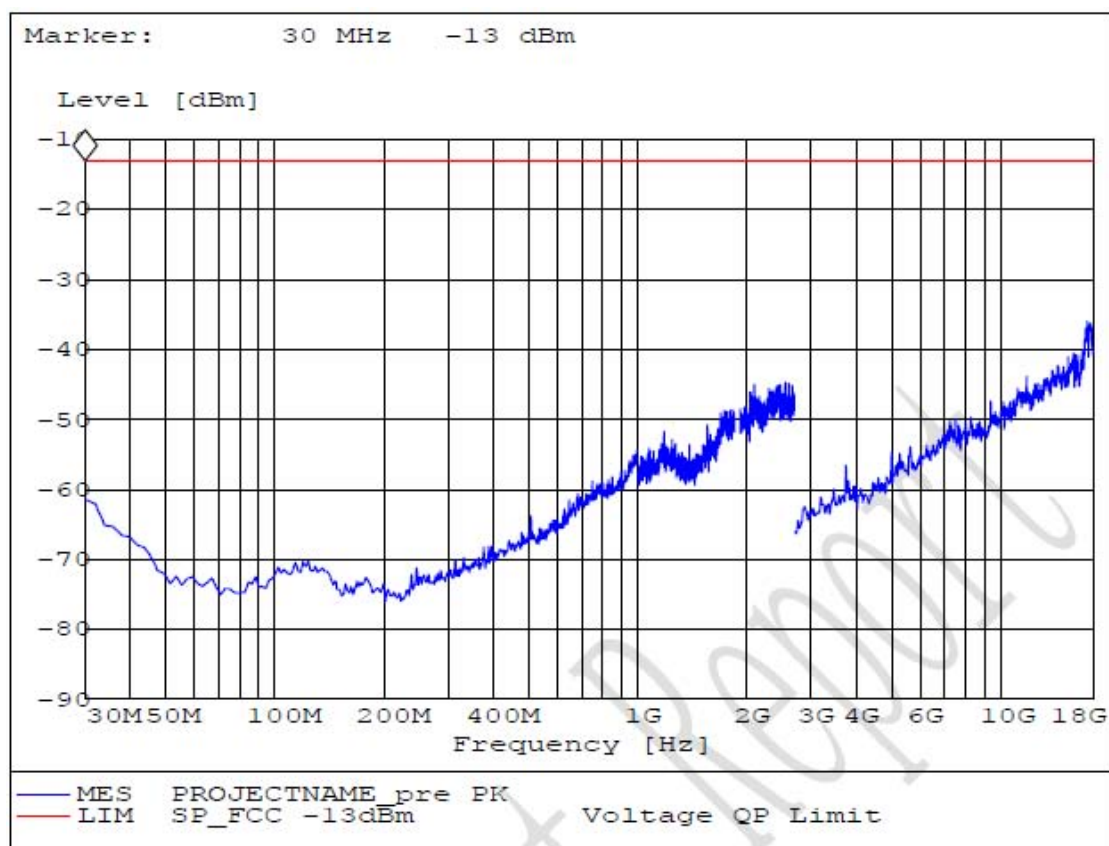
REPORT NO.: I08GW7473-FCC-EMC



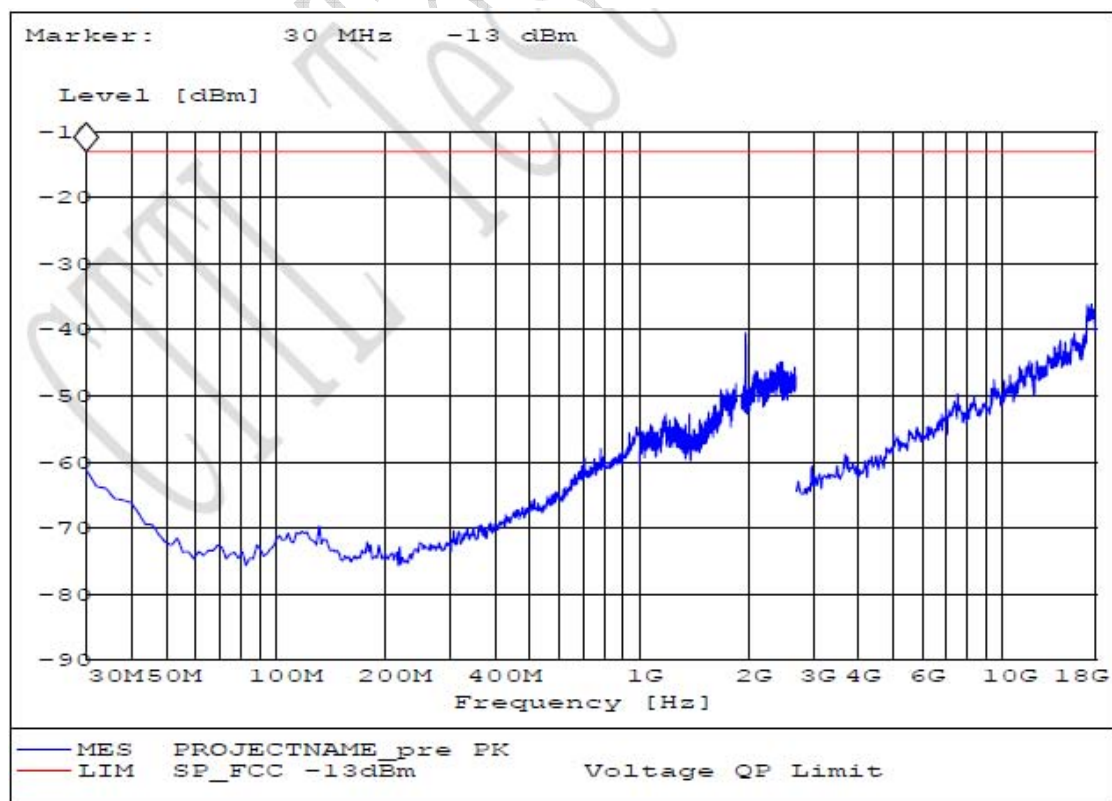
S9400vf for HSDPA mode



S9400hf for HSDPA mode



S9400vt for HSDPA mode



S9400ht for HSDPA mode

4.2 Radiated RF Power Output and ERP

Specifications:	2.1046,24.232,22.913(a)					
Date of Tests	2009-2-11, 2009-4-3					
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 128, 190, 251, 512, 661 and 810 for GSM and 4133, 4175, 4232, 9263, 9400 and 9537 for WCDMA					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2010-01-11	Normal
7330	Ultra Broadband Antenna	SCHWARZBECK	VULB 9160	--	2010-10-26	Normal
7330	Double-Ridged Horn Antenna	R/S	HF906	100037	2010-01-09	Normal
713	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3m	--	2010-11-16	Normal
023	Wireless Communications Test Set	Agilent	8960(E5515C)	GB41450323	2009-06-13	Normal
111835	Wireless Communications Test Set	R&S	CMU200	1100000802	--	Normal

Limit Level Construction:**(a) Radiated RF Power Output**

According to Part 24.232(b), i.e., Mobile/portable stations are limited to 2 watts EIRP peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications, so the limit level is 2 W or 33 dBm.

(b) ERP

According to Part 22.913(a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

Limits for Radiated RF Power Output

Frequency range	Limit Level (EIRP) / Resolution Bandwidth
TX channel	33dBm/1MHz
Limits for ERP	
Frequency range	Limit Level (ERP)
TX channel	7W

Test Setup:

The EUT was set in an anechoic chamber, which is connected to the Wireless Communications Test Set located outside the chamber over the air. The test was done using an automated test system, where all test equipments were controlled by a computer.

Test Method

The measurement was performed accordance with section 2.2.17 of ANSI/TIA-603-B-2002: *Land Mobile FM or PM Communications Equipment Measurement and Performance Standards*.

1 The maximum power was searched by turning the azimuth of the turntable, shifting the polarization of the measuring antenna and changing the pose of the EUT.

2 The measured levels are EIRP values corrected in the automated test system with the correction factors given by a substitution calibration made before the measurement. The calibration is made separately for vertical and horizontal polarization and the system uses different correction factors depending on the measuring antenna polarization.

3 The corrected maximum levels were reported for EIRP values, and ERP values can be calculated from EIRP values.

Note:

$$\text{ERP (dBm)} = \text{EIRP (dBm)} - 2.15 \text{ dB}$$

EIRP Value for GSM mode:

ARFCN	Frequency [MHz]	EIRP [dBm]
128	824.228457	27.53
190	836.653307	27.25
251	848.877756	26.92
512	1850.1002	24.97
661	1880.08016	24.61
810	1909.739479	24.84

EIRP Value for GPRS mode:

ARFCN	Frequency [MHz]	EIRP [dBm]
128	824.228457	27.02
190	836.653307	26.94
251	848.877756	26.68
512	1850.260521	24.66
661	1879.91984	24.29
810	1909.739479	23.64

EIRP Value for EGPRS mode:

ARFCN	Frequency [MHz]	EIRP [dBm]
128	824.228457	26.60
190	836.653307	28.50
251	848.877756	26.97
512	1850.260521	23.89
661	1880.08016	23.09
810	1909.8998	22.66

EIRP Value for WCDMA mode:

ARFCN	Frequency [MHz]	EIRP [dBm]
4133	825.631263	18.72
4175	834.048096	16.03
4232	845.470942	16.81
9263	1851.543086	16.33
9400	1881.362725	16.40
9537	1908.136273	16.80

EIRP Value for HSDPA mode:

ARFCN	Frequency [MHz]	EIRP [dBm]
4133	826.032064	17.21
4175	834.048096	16.21
4232	846.973948	15.91
9263	1853.306613	15.93
9400	1880.721443	15.98
9537	1906.533066	14.90

4.3 Occupied bandwidth

Specifications:	2.1049,22.917(b),24.238(b)					
Date of Test	2009-2-2/5/9/10, 2009-4-3					
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 128, 190, 251, 512, 661 and 810 for GSM and 4133, 4175, 4232, 9263, 9400 and 9537 for WCDMA					
Test Results:	--					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2010-01-11	Normal
7330	Ultra Broadband Antenna	SCHWARZBECK	VULB 9160	--	2010-10-26	Normal
7330	Double-Ridged Horn Antenna	R/S	HF906	100037	2010-01-09	Normal
713	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3m	--	2010-11-16	Normal
023	Wireless Communications Test Set	Agilent	8960(E5515C)	GB41450323	2009-06-13	Normal
111835	Wireless Communications Test Set	R&S	CMU200	1100000802	--	Normal

Test Setup

The situation under which maximum EIRP values were found in the measurement of the radiated RF power output was used to determine the 99% occupied bandwidth. The Wireless Communications Test Set was used to set the TX channel, power level and modulation.

Test Method

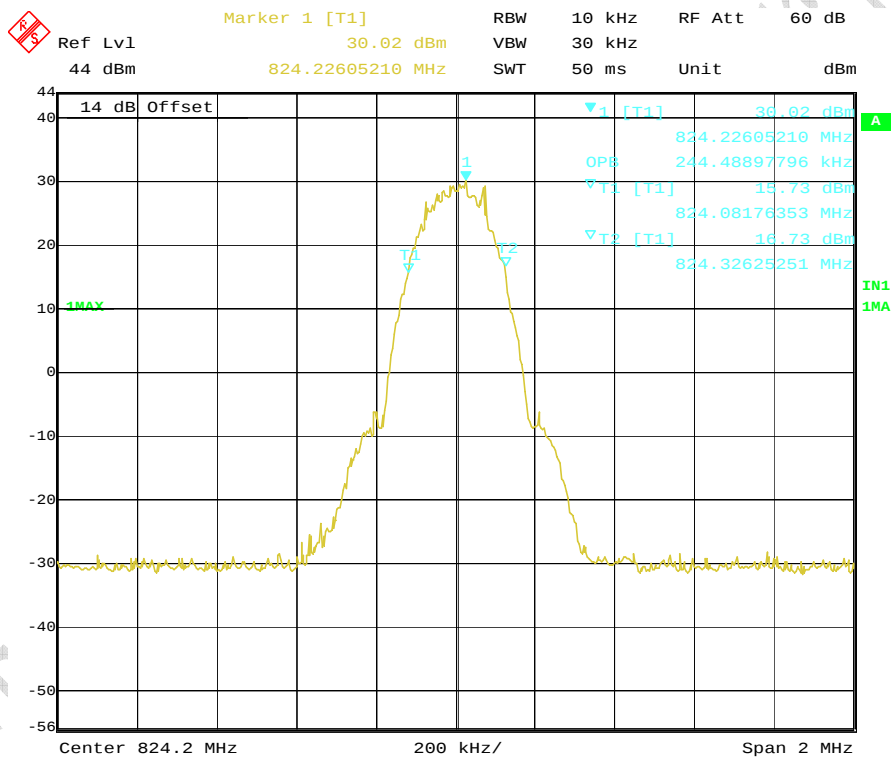
The 99% occupied bandwidth was calculated from the spectrum analyzer. Markers in the spectrum analyzer were then placed between the calculated frequencies to show the calculated 99% power band.

Note: --

Results data of GSM mode:

EUT channel	99% occupied bandwidth [kHz]
128	244
190	244
251	244
512	240
661	244
810	248

Graphical results for GSM mode:

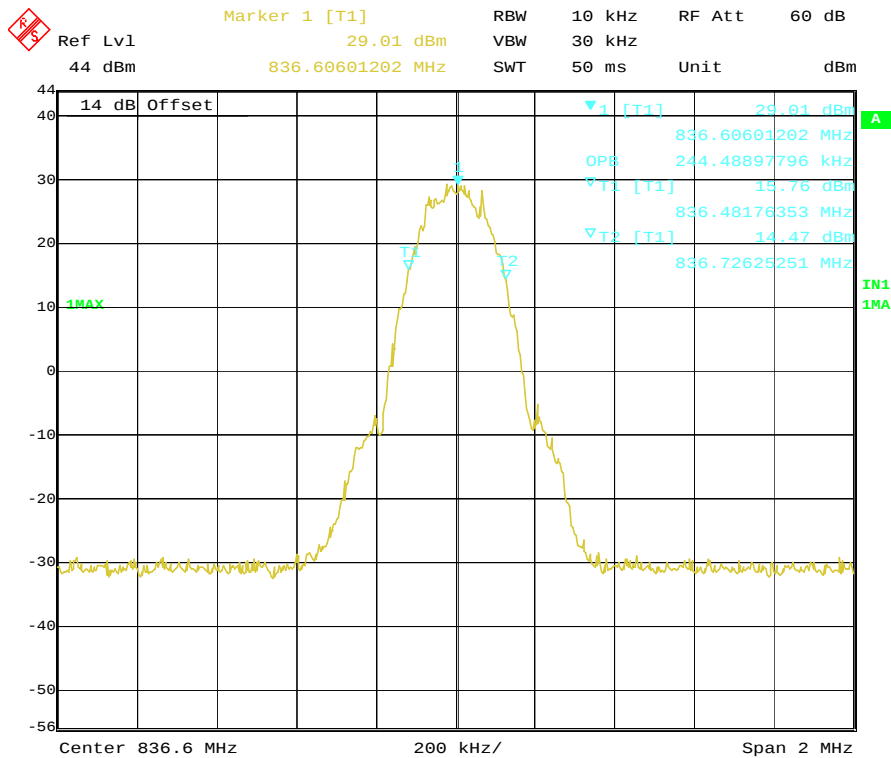


Date: 5.FEB.2009 13:55:32

Channel 128

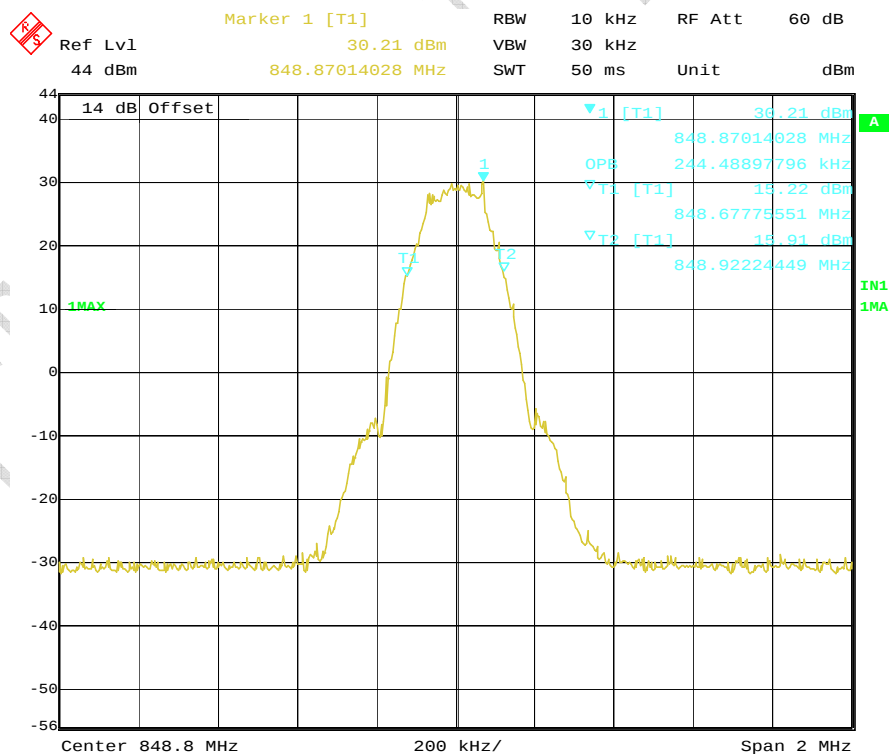
FCC Parts 2, 22, 24
Equipment: 810-F

REPORT NO.: I08GW7473-FCC-EMC



Date: 5.FEB.2009 13:53:29

Channel 190

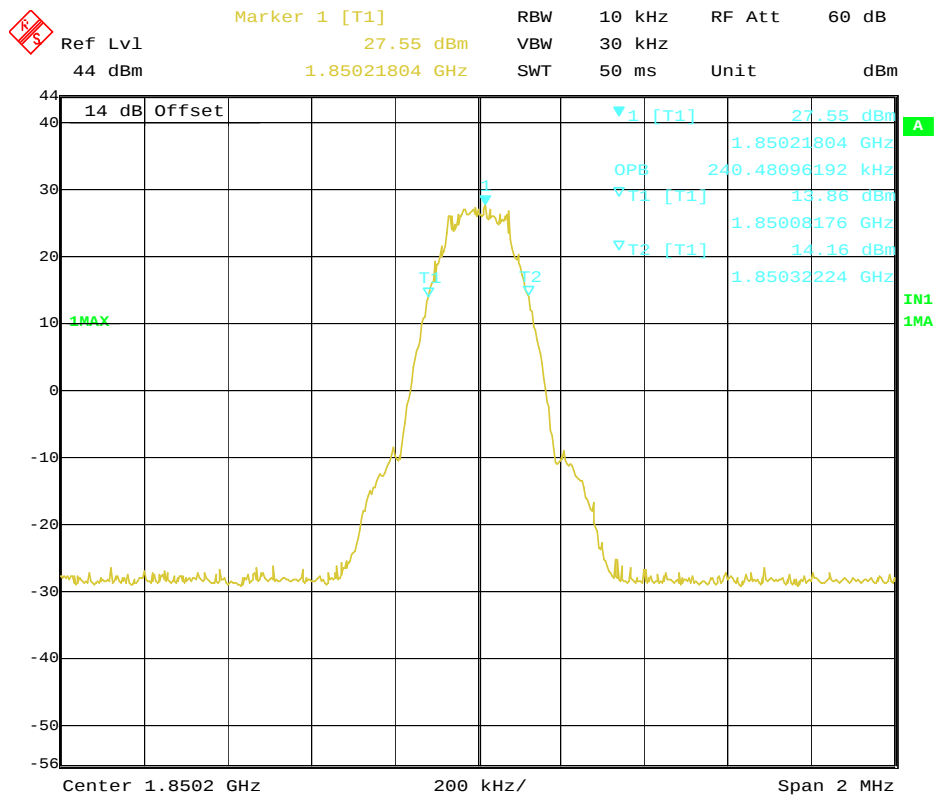


Date: 5.FEB.2009 13:52:08

Channel 251

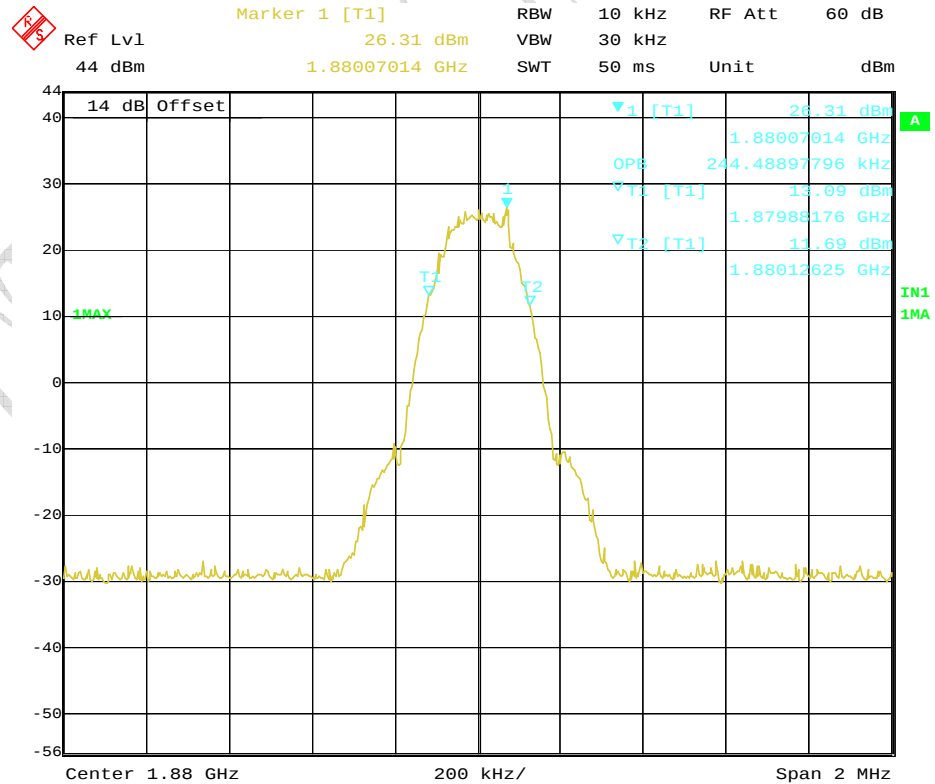
FCC Parts 2, 22, 24
Equipment: 810-F

REPORT NO.: I08GW7473-FCC-EMC



Date: 5.FEB.2009 14:04:32

Channel 512

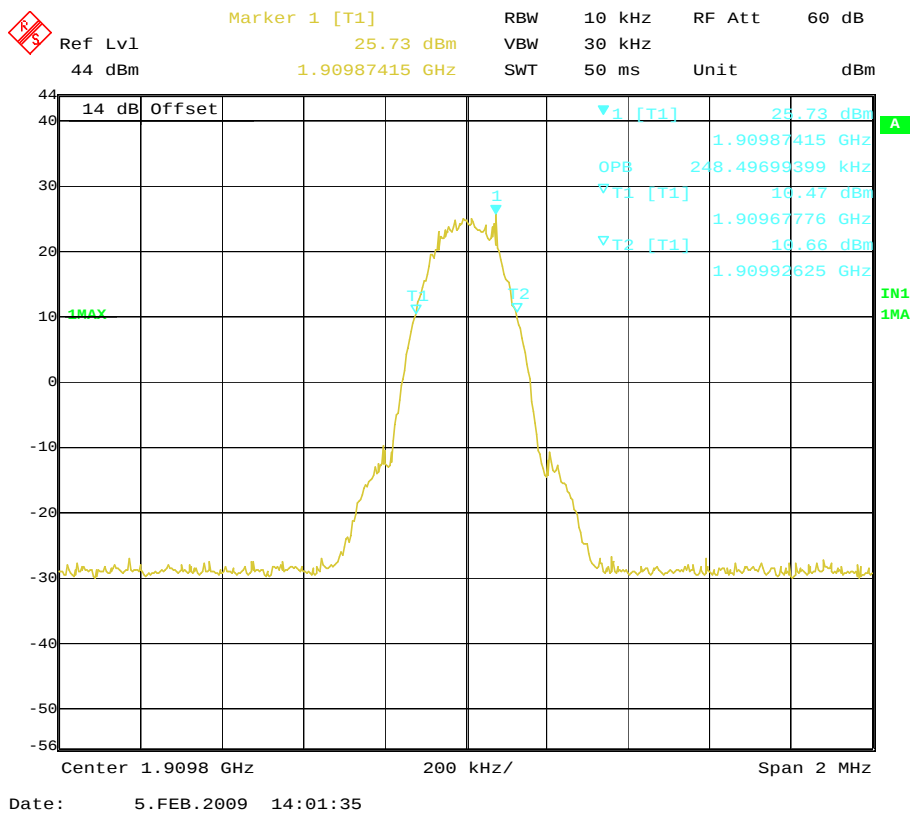


Date: 5.FEB.2009 13:58:37

Channel 661

FCC Parts 2, 22, 24
Equipment: 810-F

REPORT NO.: I08GW7473-FCC-EMC



Channel 810

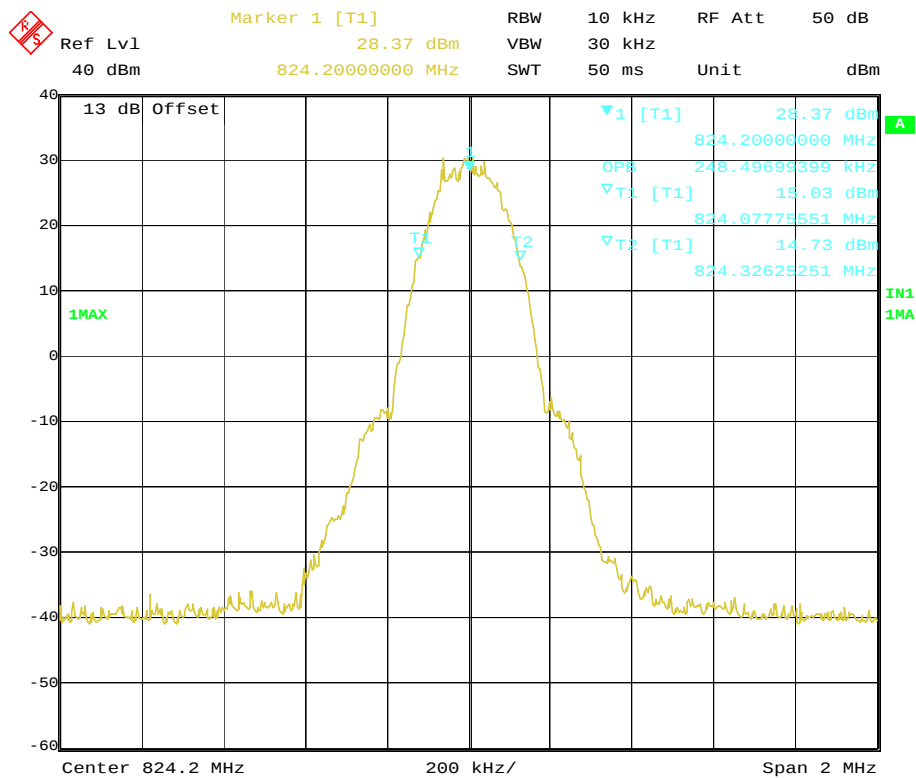
Results data of GPRS mode:

EUT channel	99% occupied bandwidth [kHz]
128	248
190	248
251	244
512	244
661	244
810	244

Graphical results for GPRS mode:

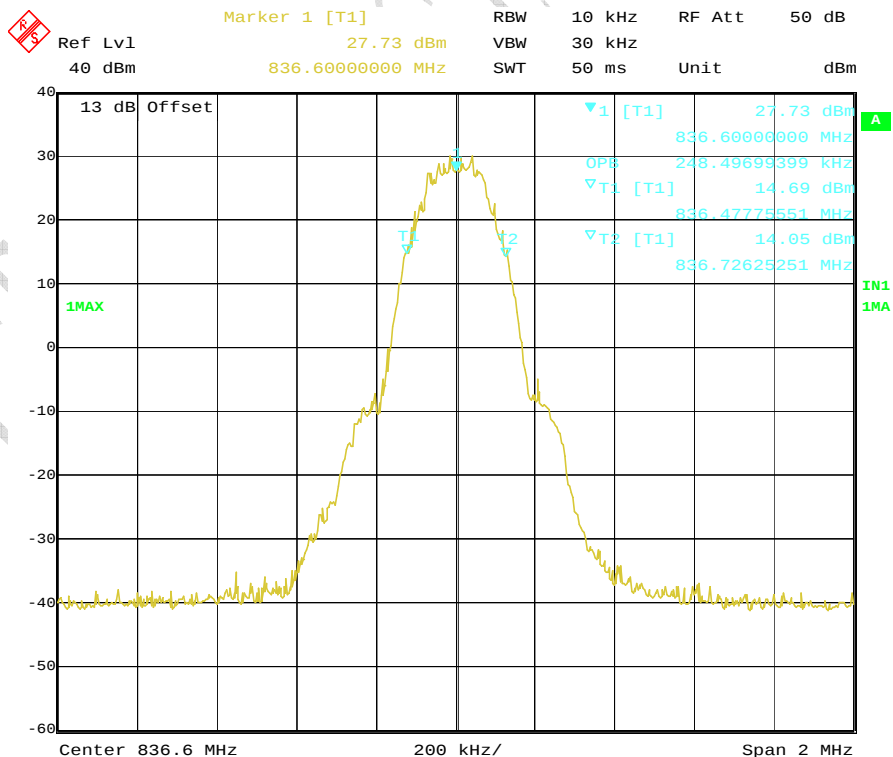
FCC Parts 2, 22, 24
Equipment: 810-F

REPORT NO.: I08GW7473-FCC-EMC



Date: 9.FEB.2009 14:42:32

Channel 128

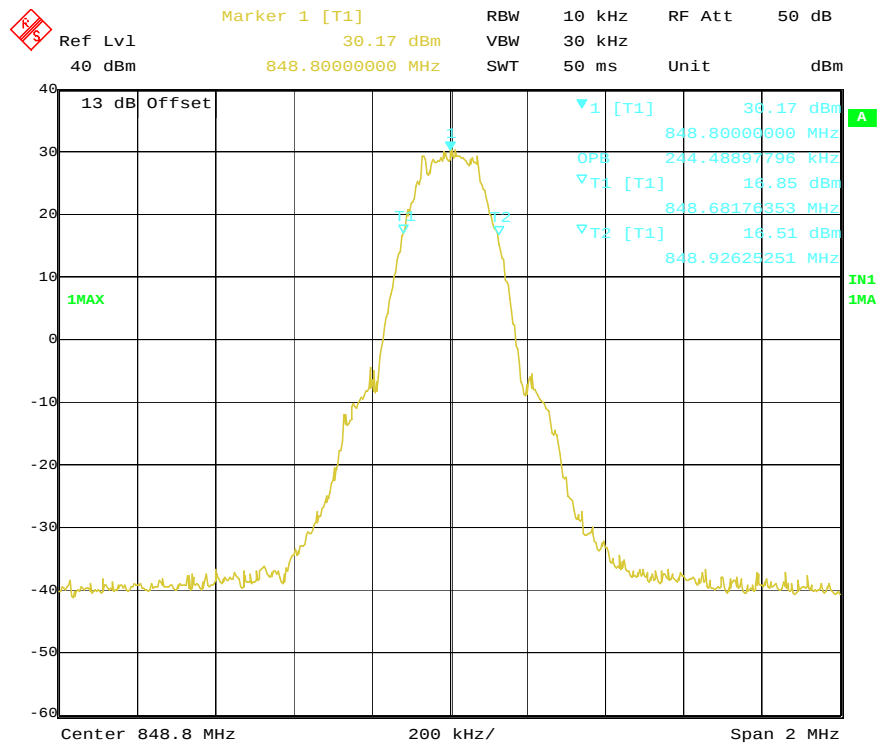


Date: 9.FEB.2009 14:43:41

Channel 190

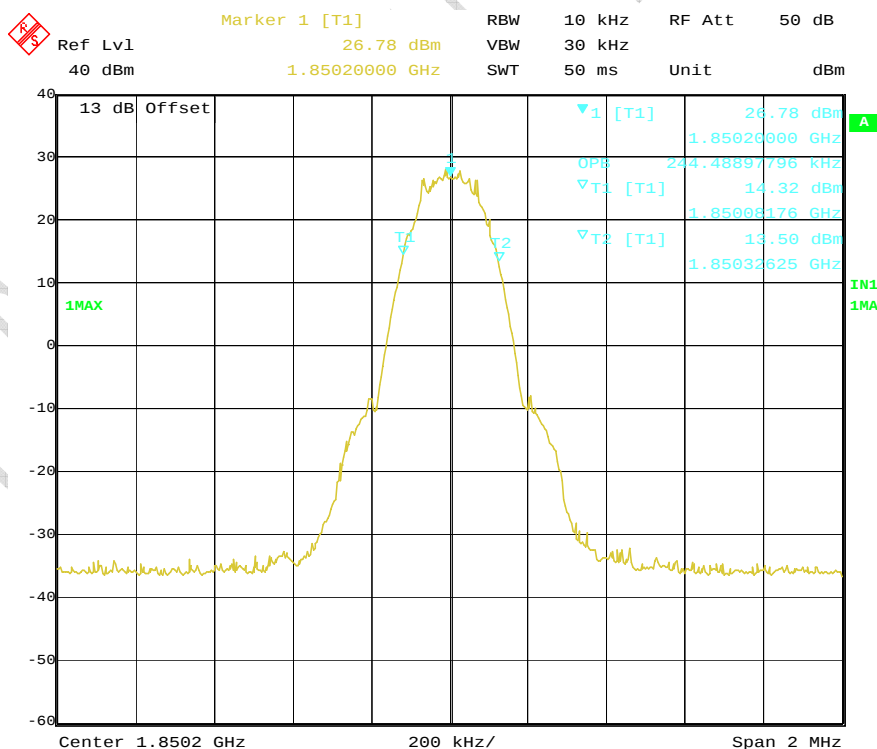
FCC Parts 2, 22, 24
Equipment: 810-F

REPORT NO.: I08GW7473-FCC-EMC



Date: 9.FEB.2009 14:47:54

Channel 251

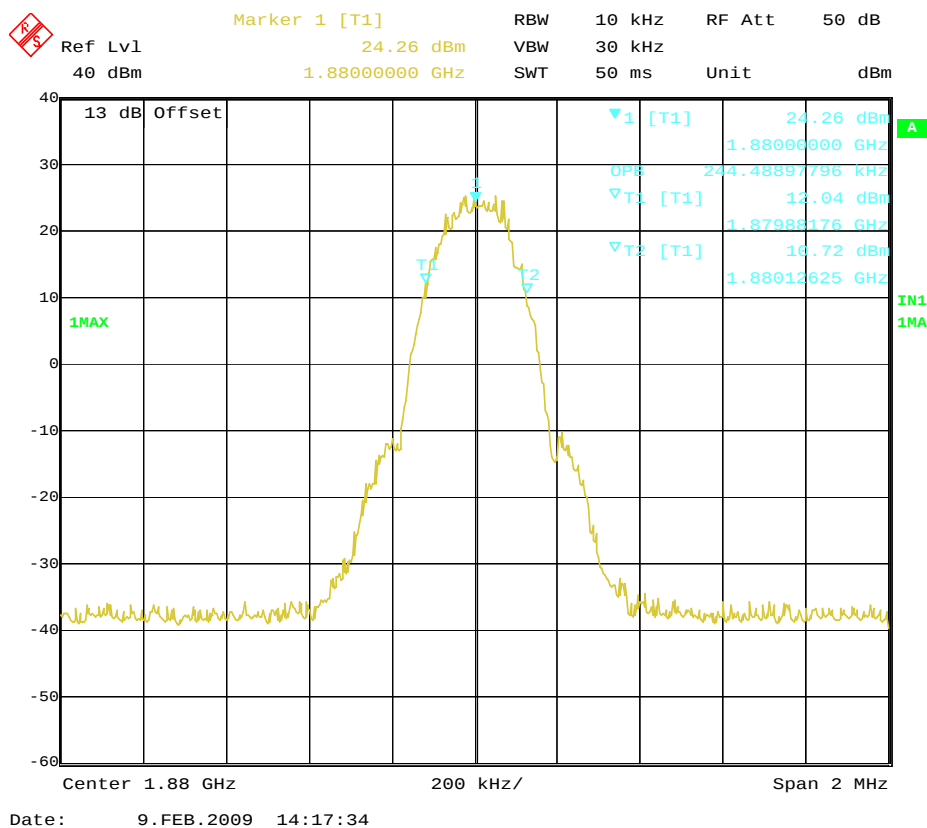


Date: 9.FEB.2009 13:58:47

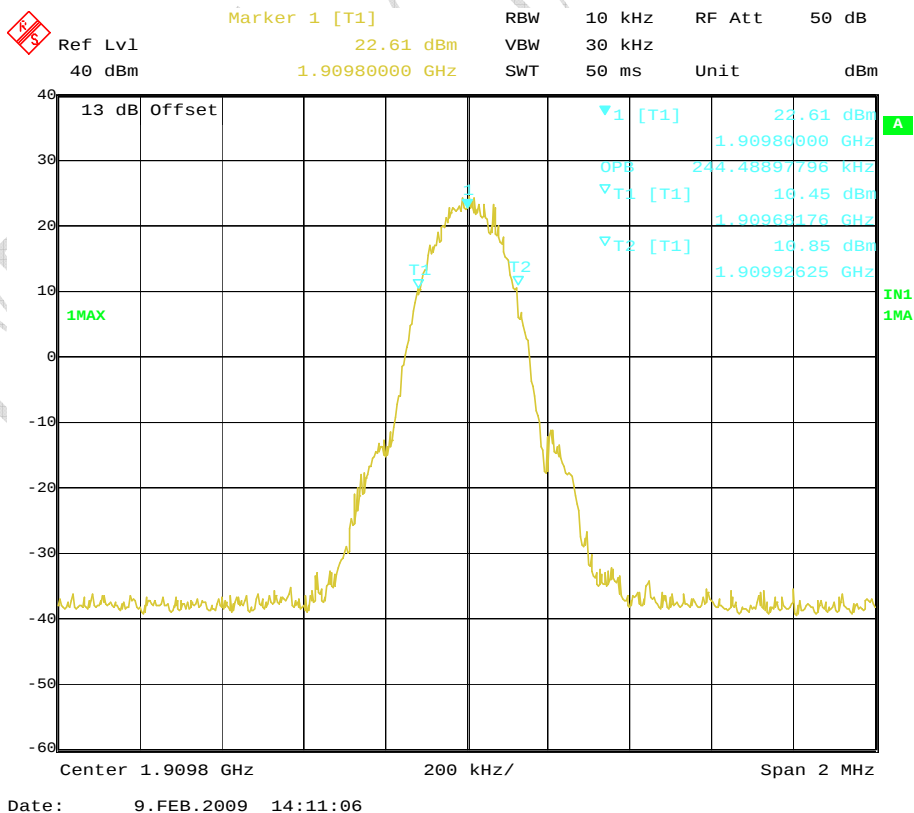
Channel 512

FCC Parts 2, 22, 24
Equipment: 810-F

REPORT NO.: I08GW7473-FCC-EMC



Channel 661

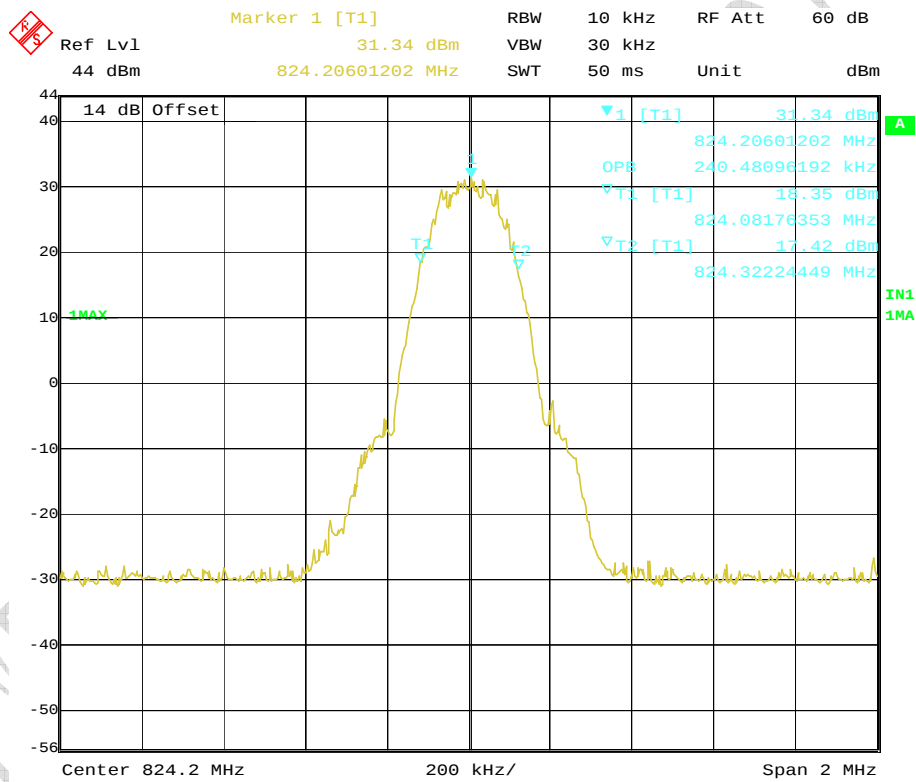


Channel 810

Results data of EGPRS mode:

EUT channel	99% occupied bandwidth [kHz]
128	240
190	240
251	244
512	244
661	244
810	248

Graphical results for EGPRS mode:

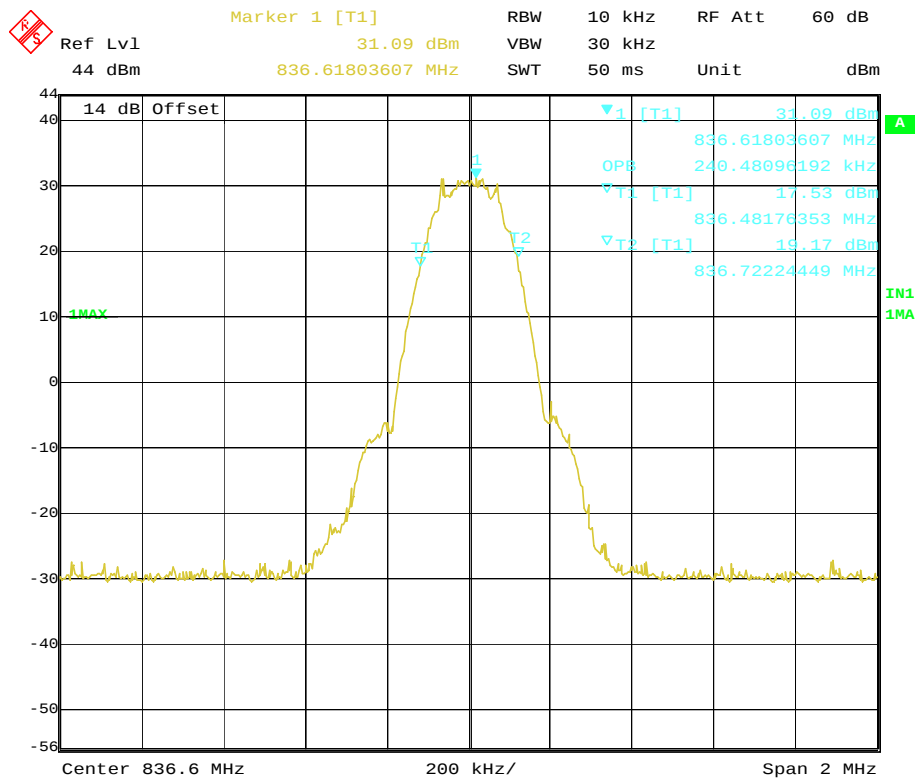


Date: 10.FEB.2009 09:40:18

Channel 128

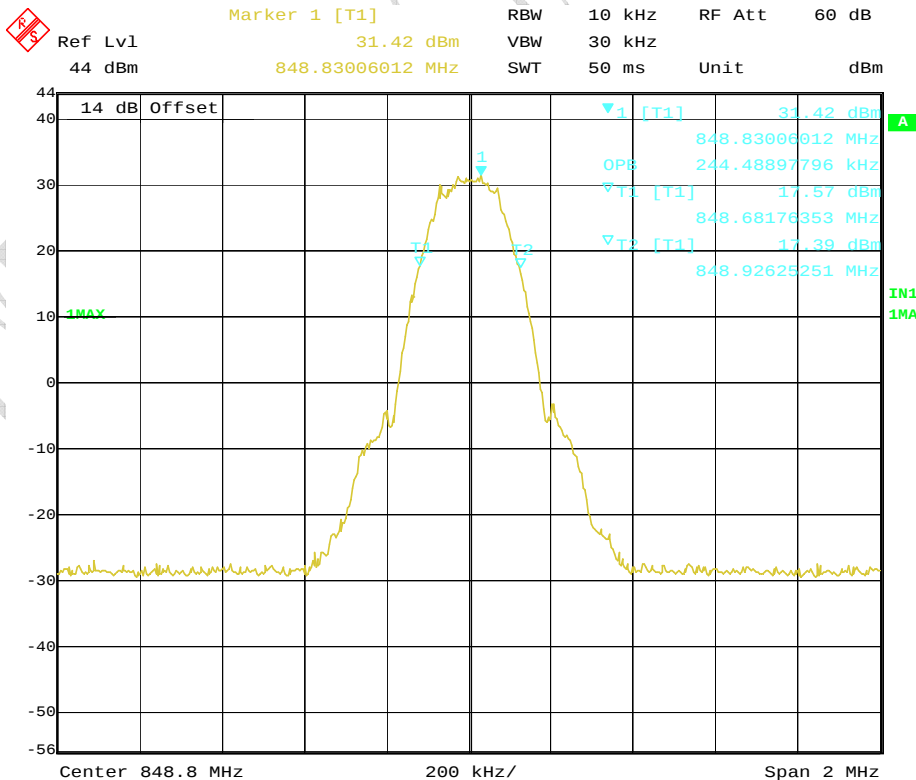
FCC Parts 2, 22, 24
Equipment: 810-F

REPORT NO.: I08GW7473-FCC-EMC



Date: 10.FEB.2009 09:42:09

Channel 190

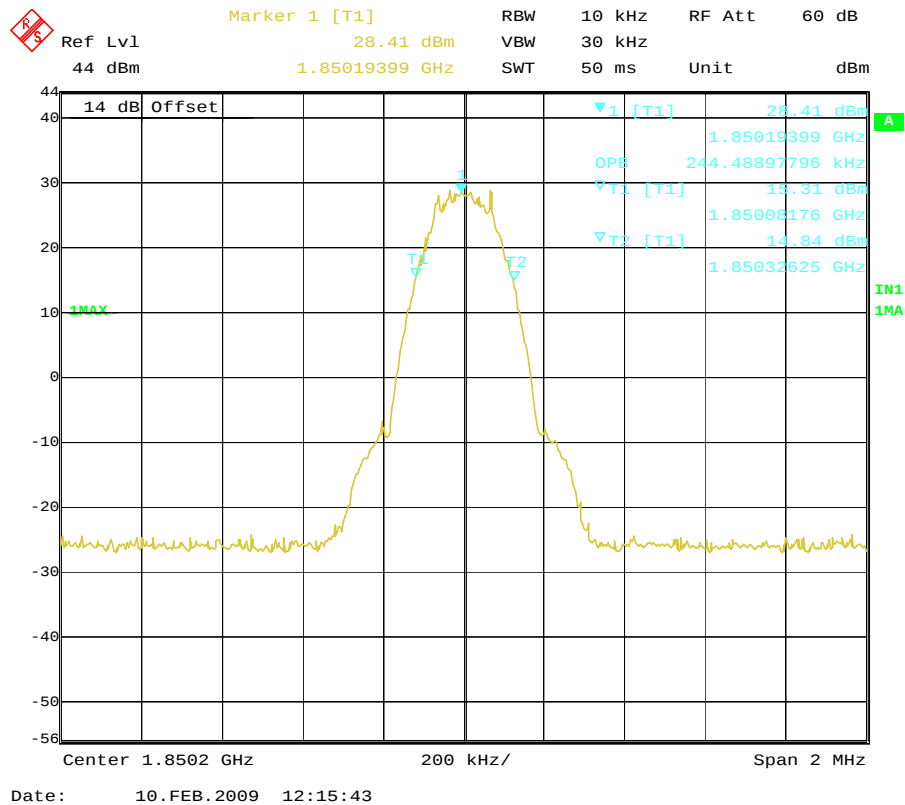


Date: 10.FEB.2009 11:06:43

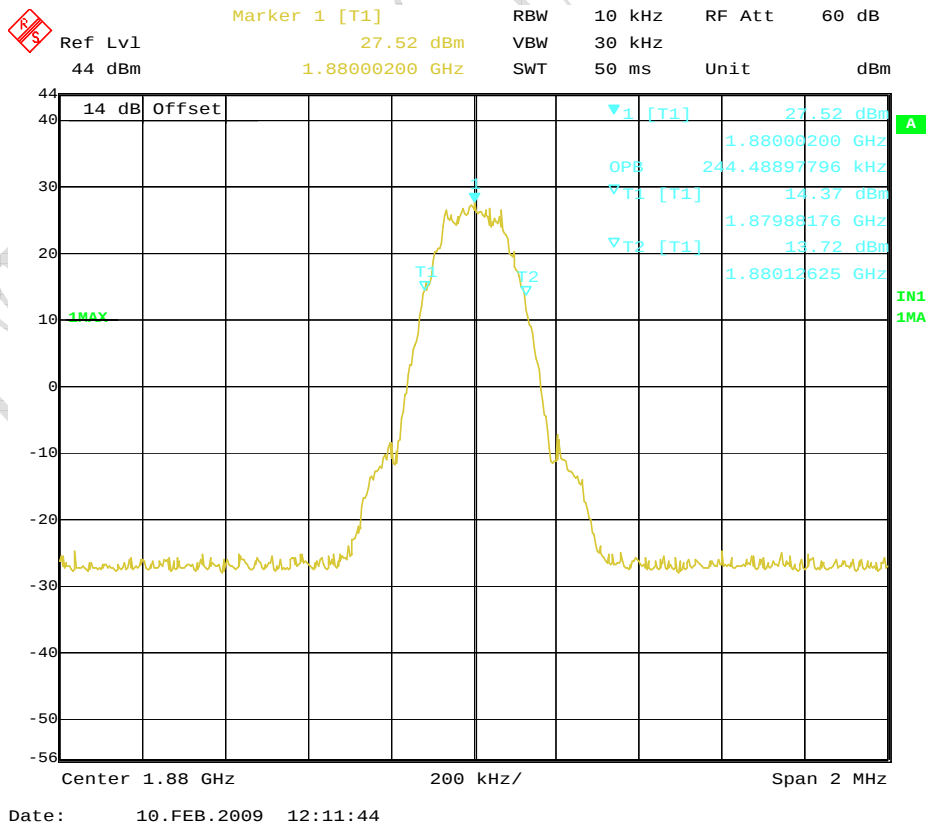
Channel 251

FCC Parts 2, 22, 24
Equipment: 810-F

REPORT NO.: I08GW7473-FCC-EMC



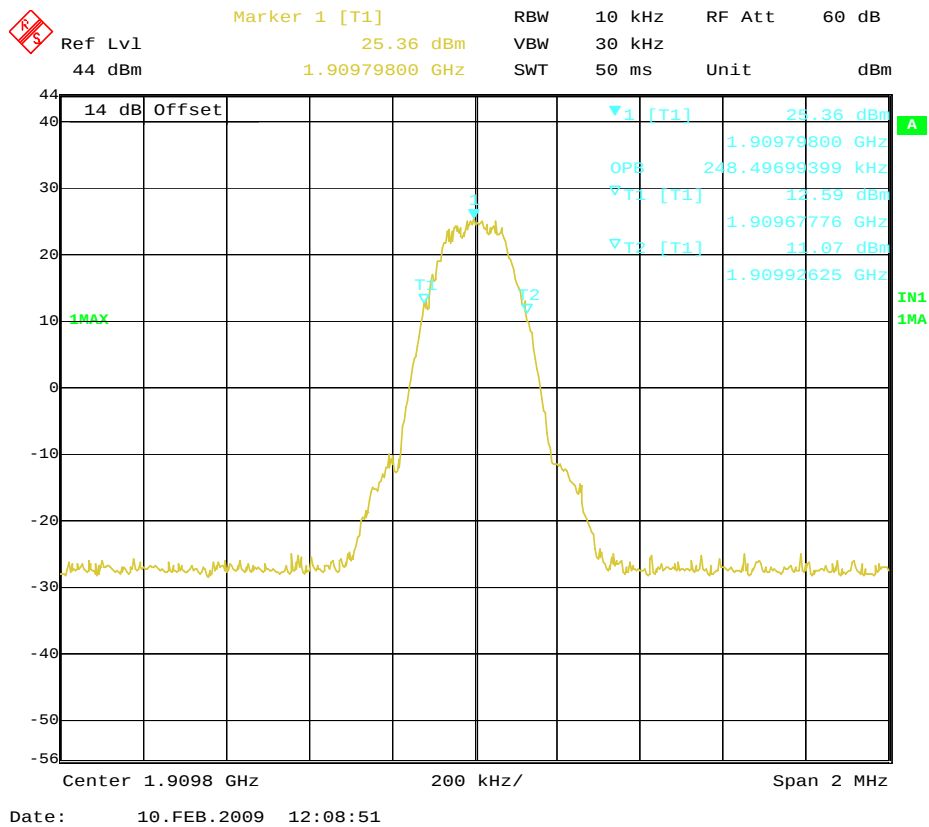
Channel 512



Channel 661

FCC Parts 2, 22, 24
Equipment: 810-F

REPORT NO.: I08GW7473-FCC-EMC



Channel 810

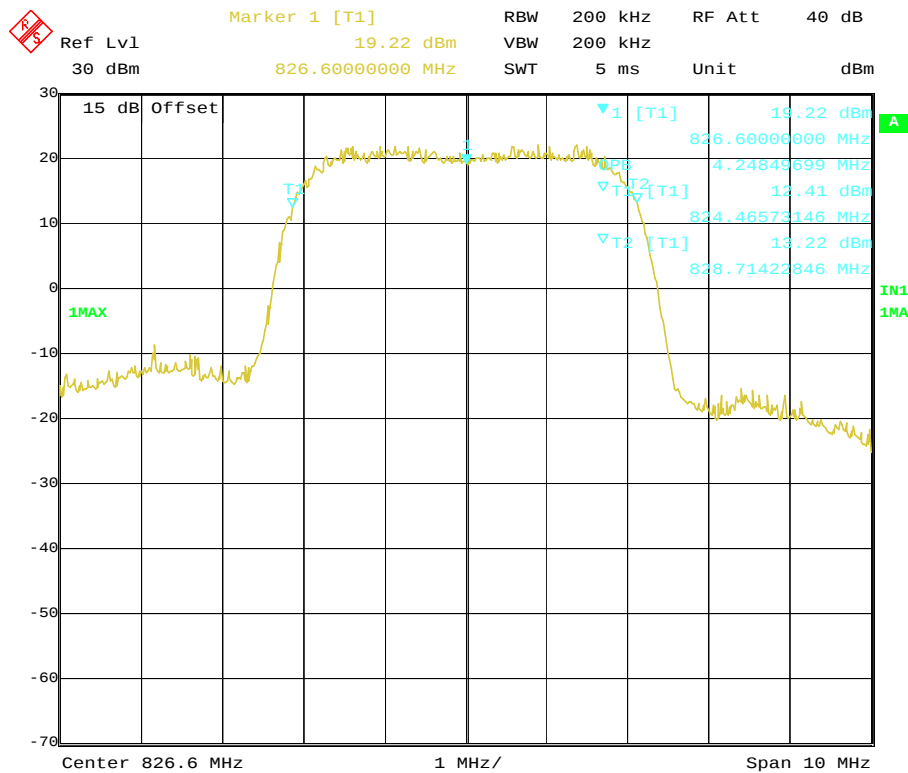
Results data of WCDMA mode:

EUT channel	99% occupied bandwidth [kHz]
4133	4248
4175	4228
4232	4228
9263	4248
9400	4248
9537	4269

Graphical results for WCDMA mode:

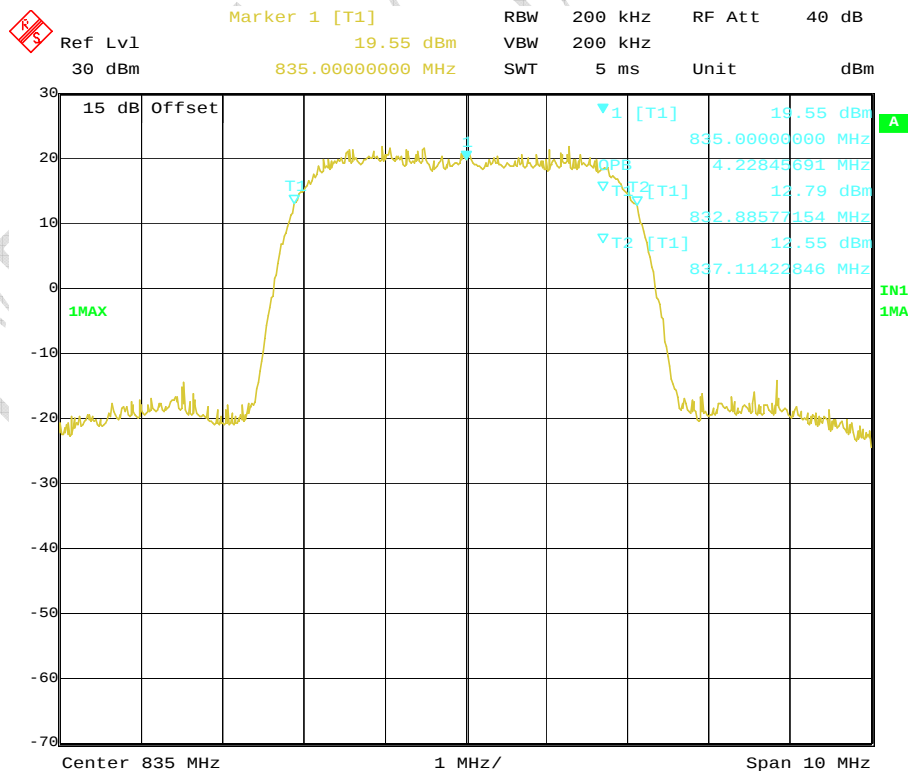
FCC Parts 2, 22, 24
Equipment: 810-F

REPORT NO.: I08GW7473-FCC-EMC



Date: 20.FEB.2009 13:28:58

Channel 4133

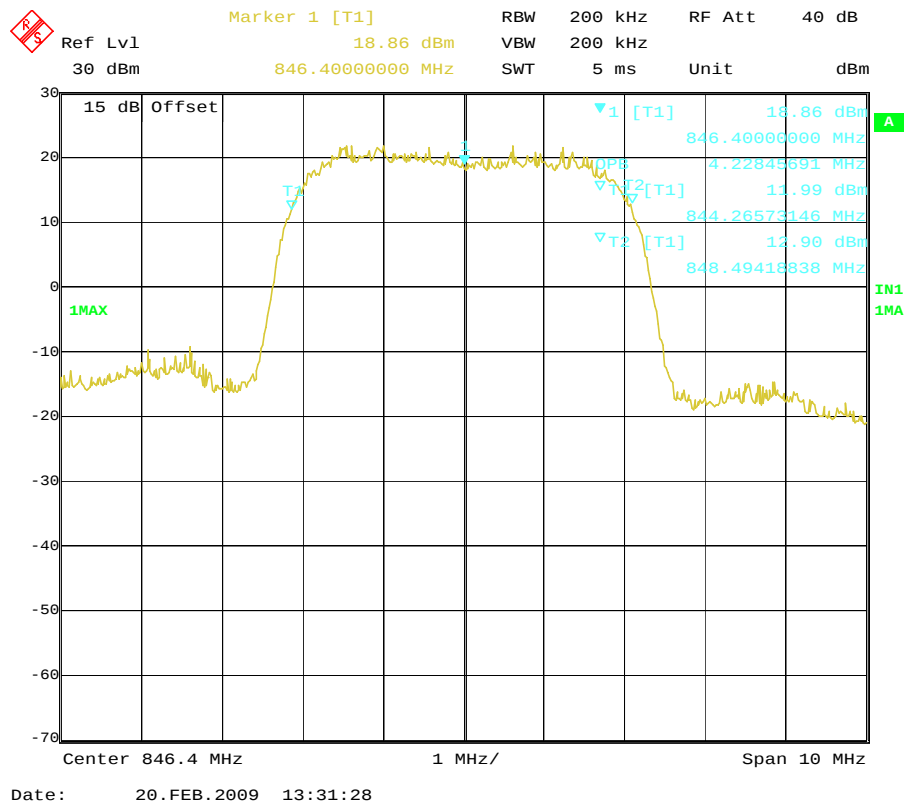


Date: 20.FEB.2009 13:29:43

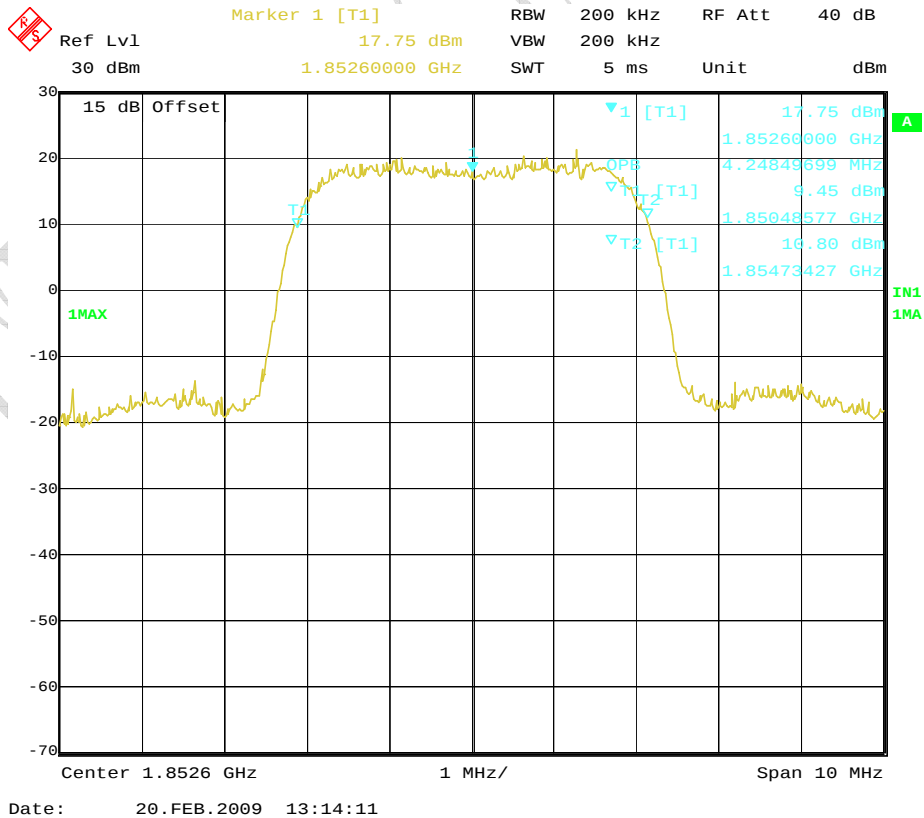
Channel 4175

FCC Parts 2, 22, 24
Equipment: 810-F

REPORT NO.: I08GW7473-FCC-EMC



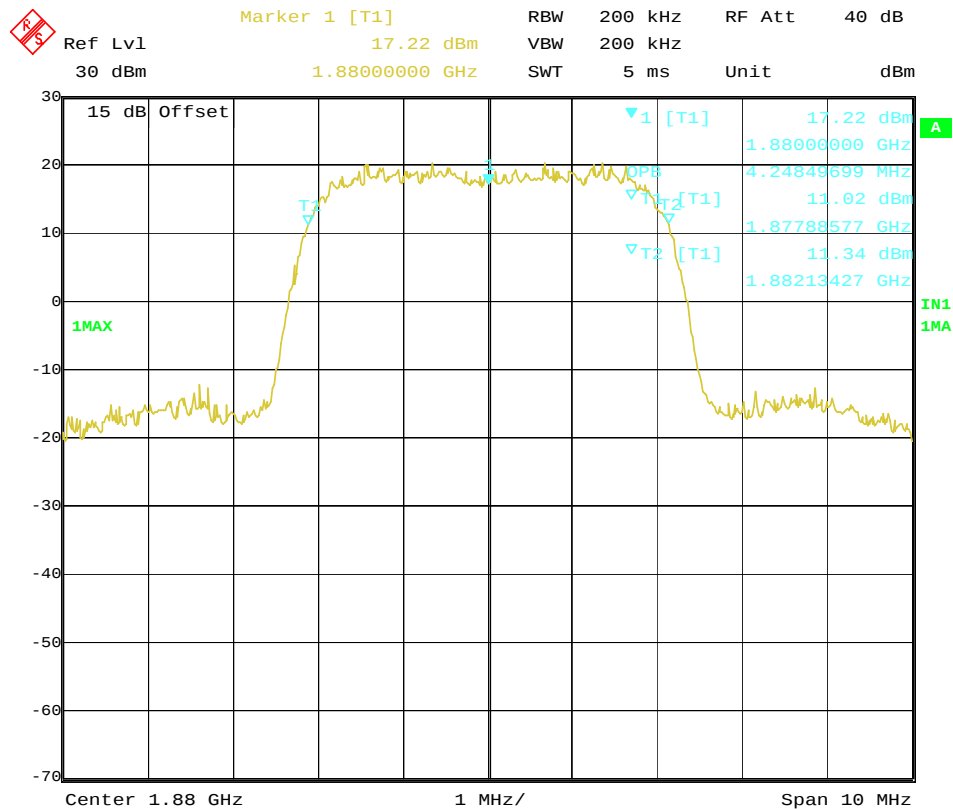
Channel 4232



Channel 9263

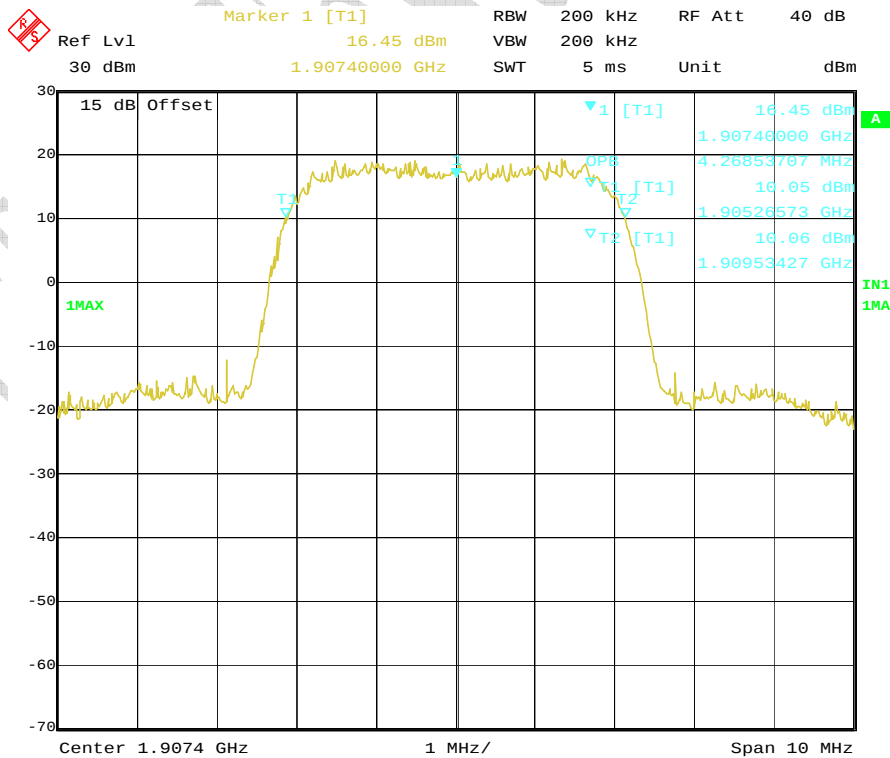
FCC Parts 2, 22, 24
Equipment: 810-F

REPORT NO.: I08GW7473-FCC-EMC



Date: 20.FEB.2009 13:14:57

Channel 9400



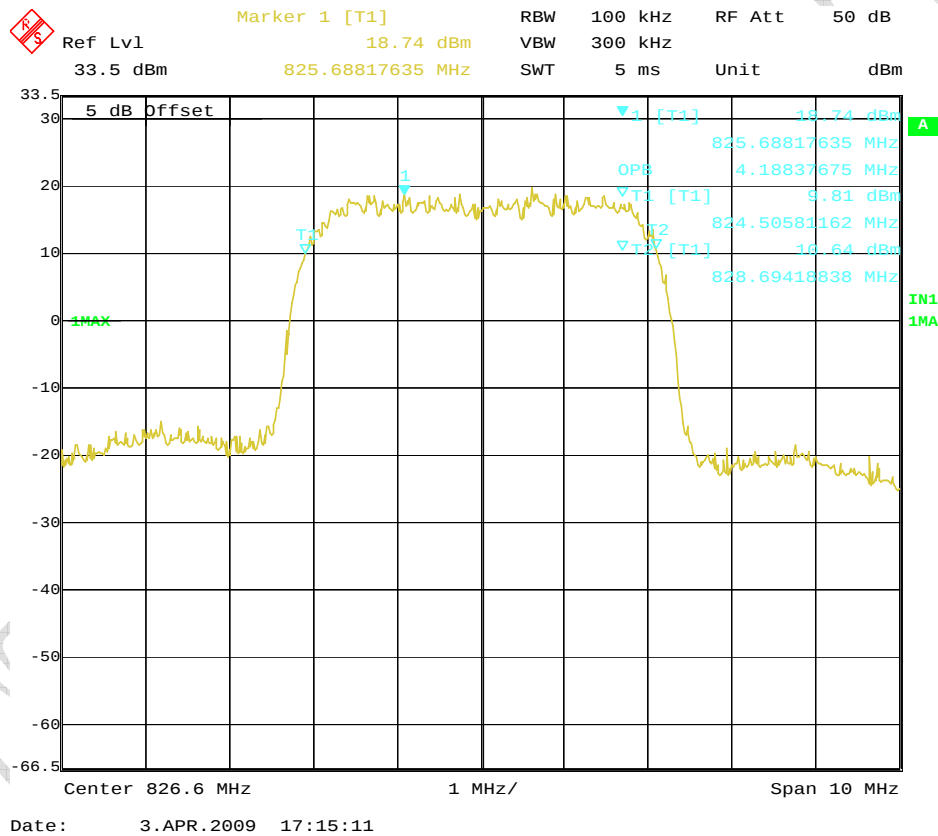
Date: 20.FEB.2009 13:16:12

Channel 9537

Results data of HSDPA mode:

EUT channel	99% occupied bandwidth [kHz]
4133	4188
4175	4208
4232	4168
9263	4208
9400	4188
9537	4188

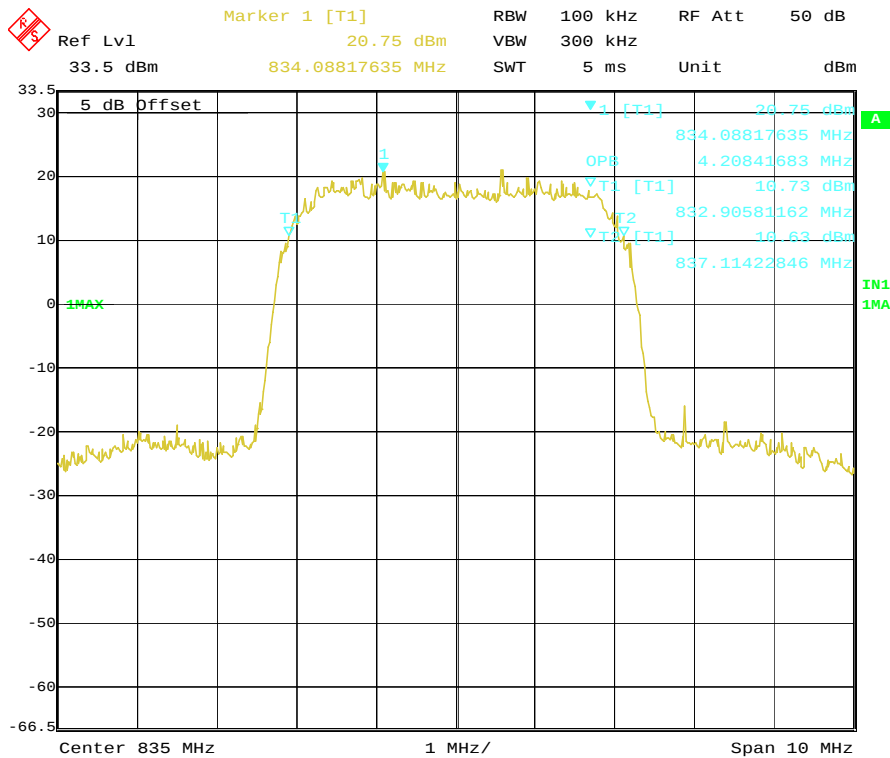
Graphical results for HSDPA mode:



Channel 4133

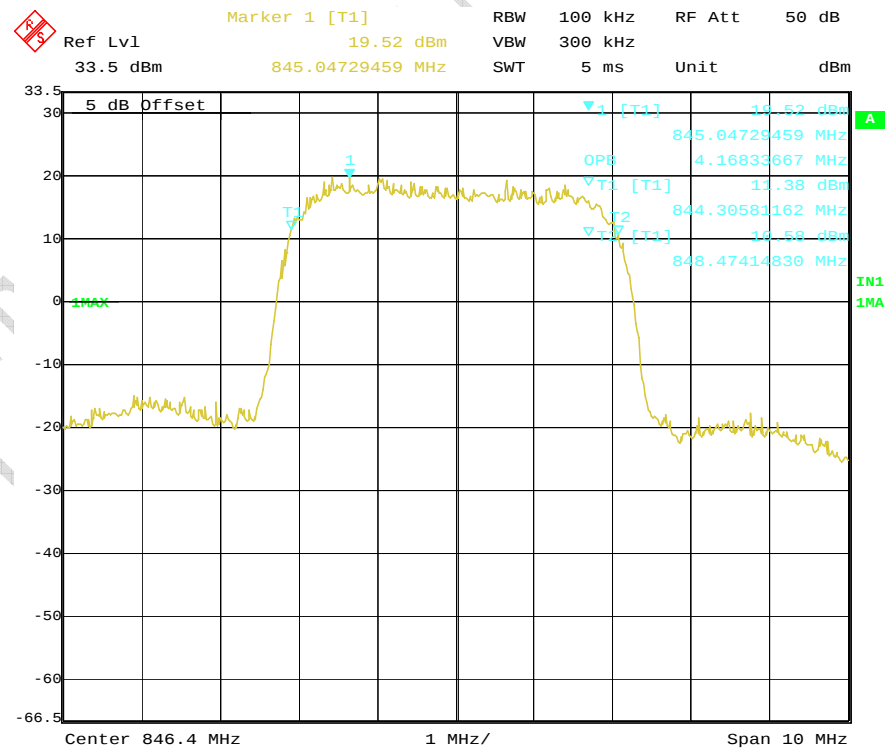
FCC Parts 2, 22, 24
Equipment: 810-F

REPORT NO.: I08GW7473-FCC-EMC



Date: 3.APR.2009 17:14:13

Channel 4175

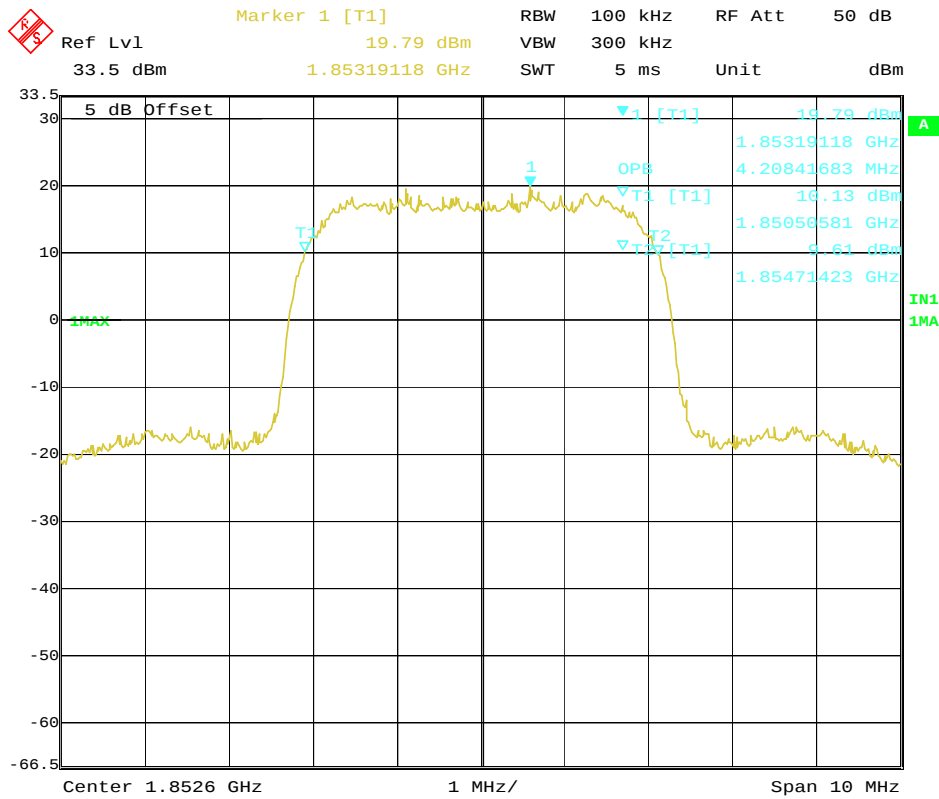


Date: 3.APR.2009 17:13:35

Channel 4232

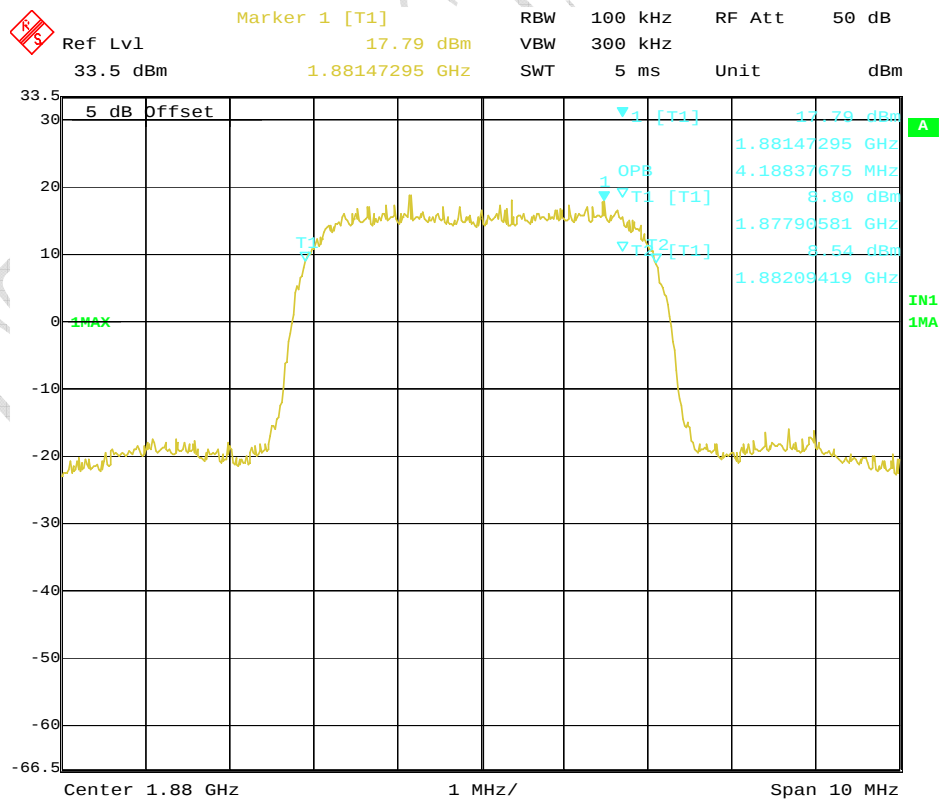
FCC Parts 2, 22, 24
Equipment: 810-F

REPORT NO.: I08GW7473-FCC-EMC



Date: 3.APR.2009 17:10:45

Channel 9263

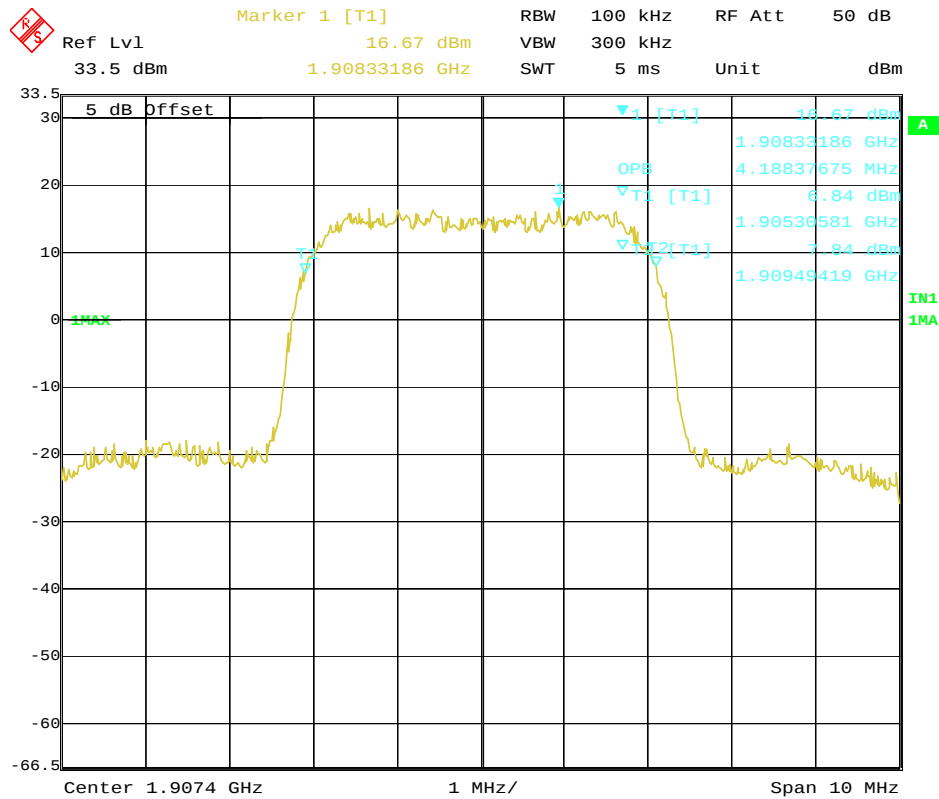


Date: 3.APR.2009 17:11:32

Channel 9400

FCC Parts 2, 22, 24
Equipment: 810-F

REPORT NO.: I08GW7473-FCC-EMC



Date: 3.APR.2009 17:12:22

Channel 9537

4.4 Frequency Stability over Temperature Variation

Specifications:	2.1055,22.355,24.235					
Date of Test	2009-2-6/20, 2009-4-3					
Test conditions:	Ambient Temperature:-30℃-50℃ Relative Humidity:30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 190 and 661 for GSM, and 4175 and 9400 for WCDMA					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
023	Wireless Communication s Test Set	Agilent	8960(E5515C)	GB41450323	2009-06-13	Normal
561	Temperature Chamber	Terchy Environmental Technology LTD.	MHU-800SR	84121202	2009-05-06	Normal
111835	Wireless Communication s Test Set	R&S	CMU200	1100000802	--	Normal
Limit						
Frequency deviation [ppm]		± 2.5				

Test Setup

The EUT was placed in a temperature chamber, demonstrated as figure T. The wireless communications test set (test simulator) was used to set the TX channel and power levels, modulate the TX signal with different bit patterns and measure the frequency of TX.

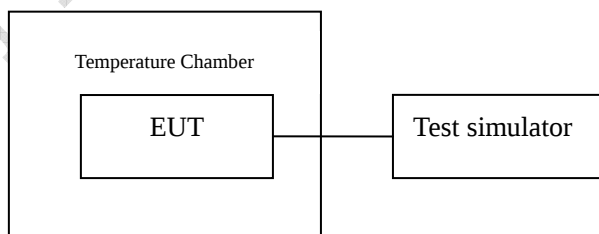


Figure T: setup for measurement of frequency stability over temperature variation

Test Method

1. The EUT was turned off and placed in the temperature chamber.
2. The temperature of the chamber was set to -30°C and allowed to stabilize.
3. The EUT temperature was allowed to stabilize for 45 minutes.
4. The EUT was turned on and set to transmit with 8960.
5. The maximum transmit frequency deviation during one minute period was measured by Wireless Communications Test Set.
6. The steps 3-5 were repeated for -20°C, -10°C, 0°C, 10°C, 20°C, 30°C, 40°C and 50°C.

Test results data for GSM mode:

Channel 190: Compliance windows: 2091.5Hz

Temperature[°C]	Deviation[Hz]	Remarks
-30	-25	Pass
-20	-21	Pass
-10	-17	Pass
0	-14	Pass
10	-7	Pass
20	-15	Pass
30	-18	Pass
40	-23	Pass
50	-27	Pass

Channel 661: Compliance windows: 4700Hz

Temperature[°C]	Deviation[Hz]	Remarks
-30	-31	Pass
-20	-26	Pass
-10	-20	Pass
0	-15	Pass
10	-13	Pass
20	-14	Pass
30	-25	Pass
40	-31	Pass
50	-34	Pass

Test results data for GPRS mode:

Channel 190: Compliance windows: 2091.5Hz

Temperature[°C]	Deviation[Hz]	Remarks
-30	-25	Pass
-20	-23	Pass
-10	-20	Pass
0	-18	Pass
10	-17	Pass
20	-17	Pass
30	-19	Pass
40	-24	Pass
50	-30	Pass

Channel 661: Compliance windows: 4700Hz

Temperature[°C]	Deviation[Hz]	Remarks
-30	-36	Pass
-20	-31	Pass
-10	-25	Pass
0	-17	Pass
10	-21	Pass
20	-22	Pass
30	-30	Pass
40	-37	Pass
50	-41	Pass

Test results data for EGPRS mode:

Channel 190: Compliance windows: 2091.5Hz

Temperature[°C]	Deviation[Hz]	Remarks
-30	-20	Pass
-20	-7	Pass
-10	-11	Pass
0	-13	Pass
10	-15	Pass
20	-17	Pass
30	-13	Pass
40	-21	Pass
50	-20	Pass

Channel 661: Compliance windows: 4700Hz

Temperature[°C]	Deviation[Hz]	Remarks
-30	-29	Pass
-20	-27	Pass
-10	-24	Pass
0	-15	Pass
10	-11	Pass
20	-16	Pass
30	-27	Pass
40	-28	Pass
50	-33	Pass

Test results data for WCDMA mode:

Channel 4175: Compliance windows: 2087.5Hz

Temperature[°C]	Deviation[Hz]	Remarks
-30	16	Pass
-20	13	Pass
-10	12	Pass
0	15	Pass
10	12	Pass
20	14	Pass
30	17	Pass
40	13	Pass
50	18	Pass

Channel 661: Compliance windows: 4700Hz

Temperature[°C]	Deviation[Hz]	Remarks
-30	34	Pass
-20	32	Pass
-10	37	Pass
0	33	Pass
10	29	Pass
20	27	Pass
30	30	Pass
40	26	Pass
50	27	Pass

Test results data for HSDPA mode:

Channel 4175: Compliance windows: 2087.5Hz

Temperature[°C]	Deviation[Hz]	Remarks
-30	-22	Pass
-20	-35	Pass
-10	31	Pass
0	18	Pass
10	-20	Pass
20	-19	Pass
30	-16	Pass
40	-15	Pass
50	-31	Pass

Channel 661: Compliance windows: 4700Hz

Temperature[°C]	Deviation[Hz]	Remarks
-30	-18	Pass
-20	12	Pass
-10	-7	Pass
0	-11	Pass
10	-10	Pass
20	-25	Pass
30	-35	Pass
40	-31	Pass
50	-26	Pass

4.5 Frequency Stability over Voltage Variation

Specifications:	2.1055,22.355,24.235					
Date of Test	2009-2-9/20					
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 190 and 661 for GSM, and 4175 and 9400 for WCDMA					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
023	Wireless Communication s Test Set	Agilent	8960(E5515C)	GB41450323	2009-06-13	Normal
111835	Wireless Communication s Test Set	R&S	CMU200	1100000802	--	Normal
7982	DC Power Source	4NIC	DH1715A-3	004224	--	Normal
Limit						
Frequency deviation [ppm]		±2.5				

Test Setup

The EUT was placed in a shielding chamber and powered by the dummy battery which is connected to a DC power source, demonstrated as figure V. The wireless communications test set was used to set the TX channel and power level, modulate the TX signal with different bit patterns and measure the frequency of TX.

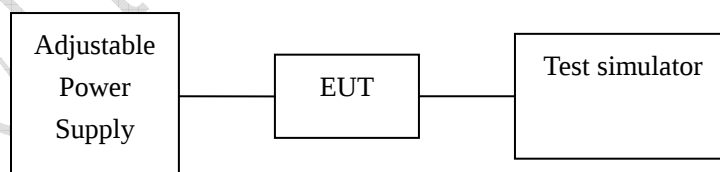


Figure V: test setup for measurement of frequency stability over voltage variation

Test Results data for GSM mode:

Channel 190: Compliance windows: 2091.5Hz

Level	Voltage[V]	Deviation[Hz]	Remarks
Nominal	4.2	46	Pass
Cut-off point	3.6	72	Pass

Channel 661: Compliance windows: 4700Hz

Level	Voltage[V]	Deviation[Hz]	Remarks
Nominal	4.2	63	Pass
Cut-off point	3.6	79	Pass

Test Results data for GPRS mode:

Channel 190: Compliance windows: 2091.5Hz

Level	Voltage[V]	Deviation[Hz]	Remarks
Nominal	4.2	34	Pass
Cut-off point	3.6	65	Pass

Channel 661: Compliance windows: 4700Hz

Level	Voltage[V]	Deviation[Hz]	Remarks
Nominal	4.2	39	Pass
Cut-off point	3.6	72	Pass

Test Results data for EGPRS mode:

Channel 190: Compliance windows: 2091.5Hz

Level	Voltage[V]	Deviation[Hz]	Remarks
Nominal	4.2	28	Pass
Cut-off point	3.6	67	Pass

Channel 661: Compliance windows: 4700Hz

Level	Voltage[V]	Deviation[Hz]	Remarks
Nominal	4.2	39	Pass
Cut-off point	3.6	77	Pass

Test Results data for WCDMA mode:

Channel 4175: Compliance windows: 2087.5Hz

Level	Voltage[V]	Deviation[Hz]	Remarks
Nominal	4.2	12	Pass
Cut-off point	3.6	13	Pass

Channel 9400: Compliance windows: 4700Hz

Level	Voltage[V]	Deviation[Hz]	Remarks
Nominal	4.2	20	Pass
Cut-off point	3.6	25	Pass

Test Results data for HSDPA mode:

Channel 4175: Compliance windows: 2087.5Hz

Level	Voltage[V]	Deviation[Hz]	Remarks
Nominal	4.2	-24	Pass
Cut-off point	3.6	-26	Pass

Channel 9400: Compliance windows: 4700Hz

Level	Voltage[V]	Deviation[Hz]	Remarks
Nominal	4.2	-26	Pass
Cut-off point	3.6	-24	Pass

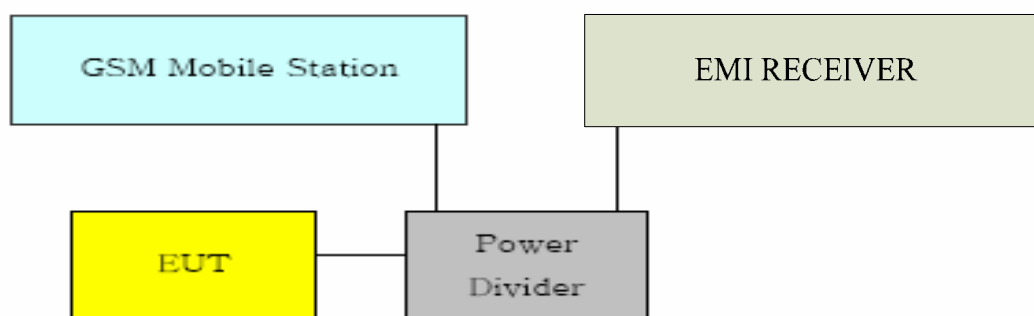
4.6 Conducted RF Power Output

Specifications:	2.1046,22.913(a),24.232(c)					
Date of Tests	2009-2-10/20, 2009-4-3					
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 128, 190, 251, 512, 661 and 810 for GSM, 4133, 4175, 4232, 9263, 9400 and 9537 for WCDMA					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2010-01-11	Normal
023	Wireless Communications Test Set	Agilent	8960(E5515C)	GB41450323	2009-06-13	Normal
---	Power splitter	Jie sai	---	1000132	2010-01-04	Normal
111835	Wireless Communications Test Set	R&S	CMU200	1100000802	--	Normal

Limits for Radiated RF Power Output	
Frequency range	Limit Level (EIRP) / Resolution Bandwidth
TX channel	33dBm/1MHz
Limits for ERP	
Frequency range	Limit Level (ERP)
TX channel	7W

Test Setup:

During the process of testing, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by Rhode & Schwarz EMI test receiver (ESI26).



Test Method

- 1) The EUT was coupled to the EMI test receiver analyzer mode and the base station simulator through a power divider. The radio frequency load attached to the EUT antenna terminal was 50 Ohm. The loss of the cables the test system is calibrated to correct the readings.
- 2) The spectrum analyzer was set to Maxpeak Detector function and Maximum hold mode.
- 3) The resolution bandwidth of the spectrum analyzer was comparable to the emission bandwidth.

Note: --

Test Results for GSM mode:

ARFCN	Peak output power [dBm]
128	32.30
190	32.30
251	32.67
512	29.81
661	28.85
810	27.59

Test Results for GPRS mode:

ARFCN	Peak output power [dBm]
128	32.82
190	32.81
251	32.94
512	29.52
661	28.50
810	27.21

Test Results for EGPRS mode:

ARFCN	Peak output power [dBm]
128	33.63
190	33.67
251	33.75
512	30.71
661	29.64
810	28.39

Test Results for WCDMA mode:

ARFCN	Peak output power [dBm]
4133	26.72
4175	26.34
4232	26.38
9263	25.25
9400	25.85
9537	24.53

Test Results for HSDPA mode:

ARFCN	Peak output power [dBm]
4133	24.65
4175	25.51
4232	25.15
9263	24.12
9400	23.31
9537	22.72

4.7 Conducted Spurious Emission

Specifications:	2.1051,22.917,24.238					
Date of Tests	2009-2-5/9/10/20, 2009-4-3					
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 190 and 661 for GSM, 4175 and 9400 for WCDMA					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2010-01-11	Normal
023	Wireless Communications Test Set	Agilent	8960(E5515C)	GB41450323	2009-06-13	Normal
---	Power splitter	Jie sai	---	1000132	2010-01-04	Normal
111835	Wireless Communications Test Set	R&S	CMU200	1100000802	--	Normal

Limit Level Construction:

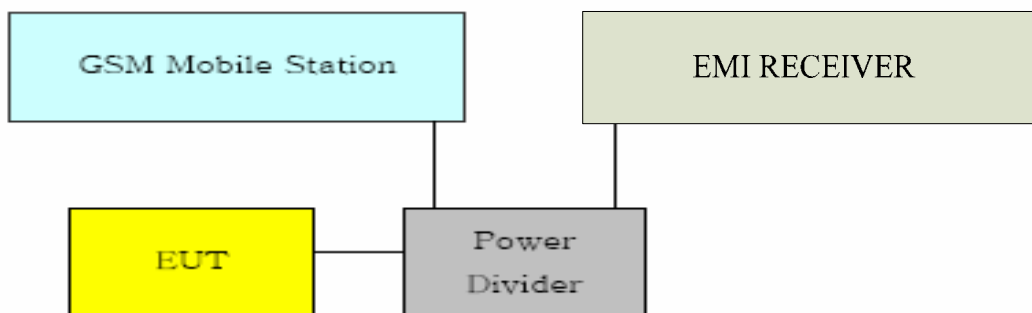
According to Part 24.238 (a), i.e., Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB, so the limit level is:
 $P(\text{dBm}) - (43 + 10 \log(P)) \text{ dB} = -13\text{dBm}$

Limits for Radiated spurious emissions(UE)

Frequency range	Limit Level /Resolution Bandwidth
30 MHz to 20000 MHz	-13dBm/1MHz

Test Setup:

During the process of testing, the EUT was controlled via Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by Rhode & Schwarz EMI test receiver (ESI26)



Test Method

The measurement was performed accordance with section 2.2.13 of ANSI/TIA-603-B-2002: *Land Mobile FM or PM Communications Equipment Measurement and Performance Standards*.

The following steps outline the procedure used to measure the conducted emissions from the EUT.

1. Determine frequency range for measurements: From CFR 2.1057 the spectrum should be investigated from the lowest radio frequency generated in the equipment up to at least the 10th harmonic of the carrier frequency. For the equipment under test, this equates to a frequency range of 30 MHz to 19.1 GHz, data taken from 30 MHz to 20 GHz.
2. Determine EUT transmit frequencies: below outlines the band edge frequencies pertinent to conducted emissions testing.

Note: --

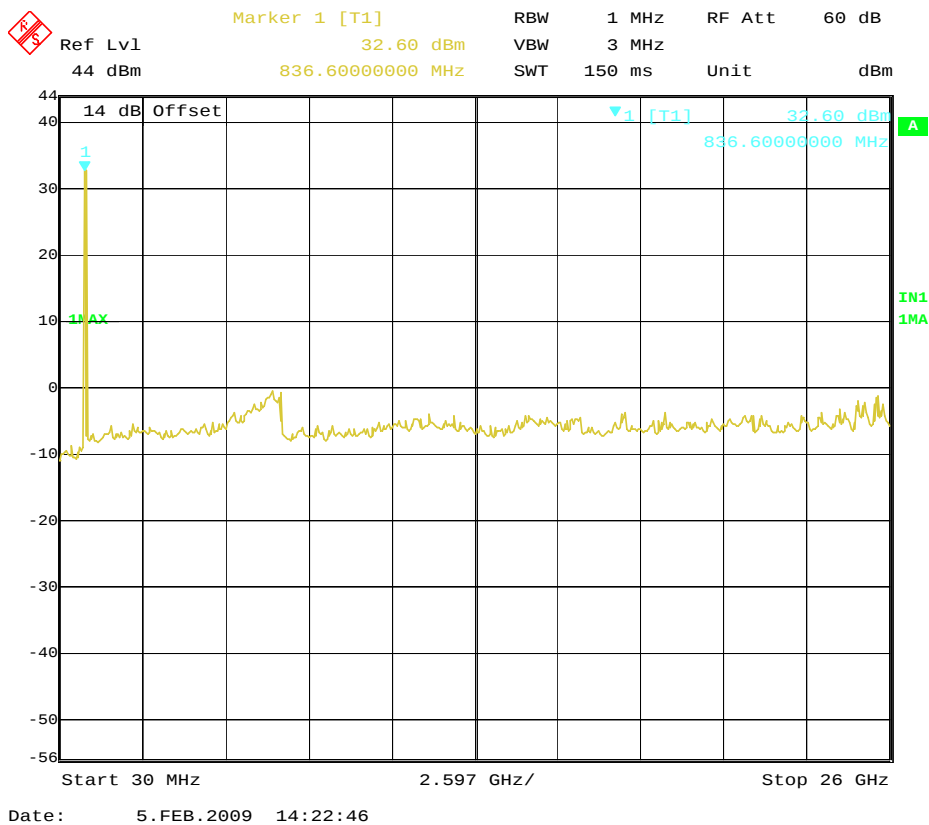
Test Results for GSM mode:

Out of band emission	
Frequency [MHz]	Level (dBm)
--	--

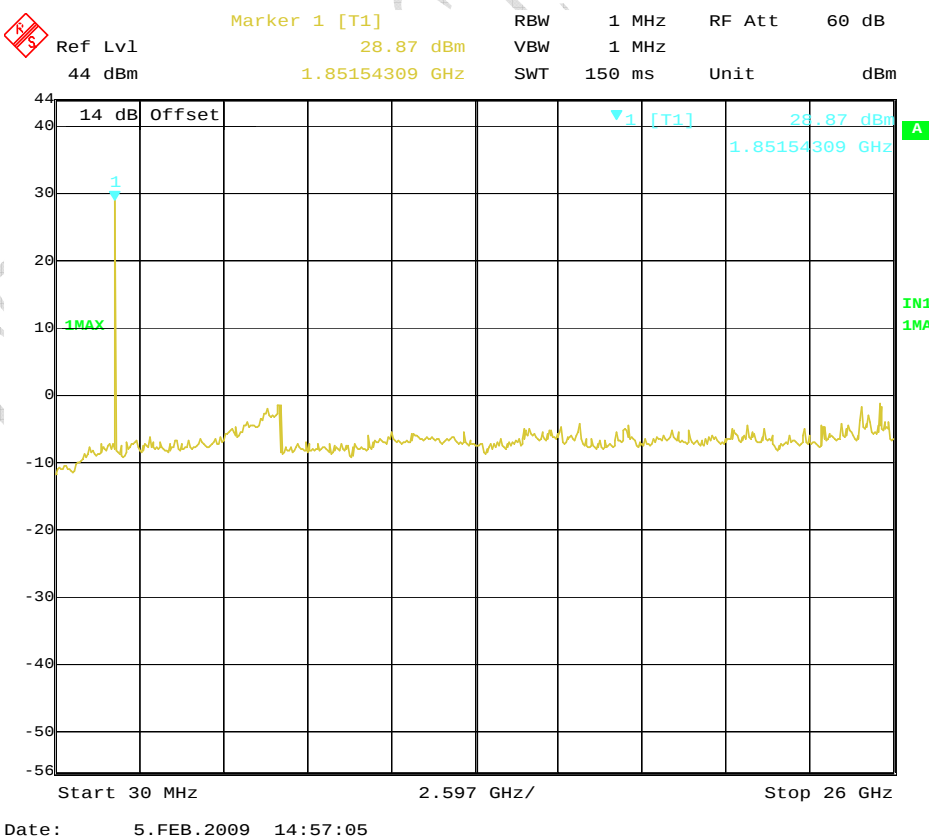
Graphical results for GSM mode:

FCC Parts 2, 22, 24
Equipment: 810-F

REPORT NO.: I08GW7473-FCC-EMC



Channel 190



Channel 661

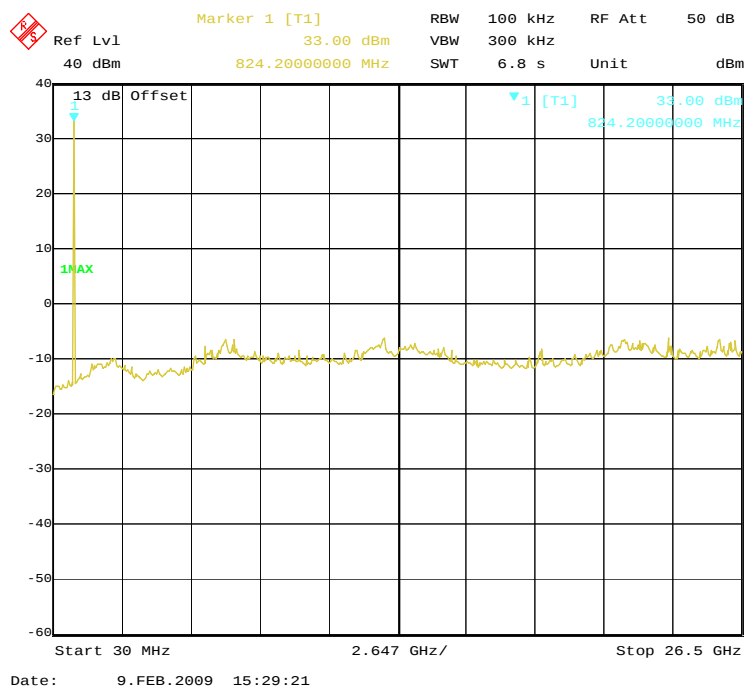
FCC Parts 2, 22, 24
Equipment: 810-F

REPORT NO.: I08GW7473-FCC-EMC

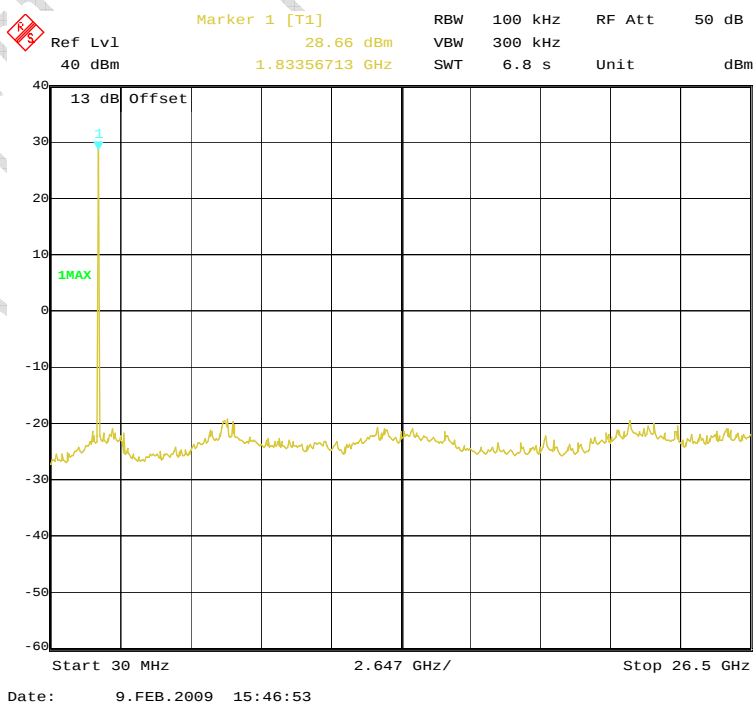
Test Results for GPRS mode:

Out of band emission	
Frequency [MHz]	Level (dBm)
--	--

Graphical results for GPRS mode:



Channel 190



Channel 661

FCC Parts 2, 22, 24
Equipment: 810-F

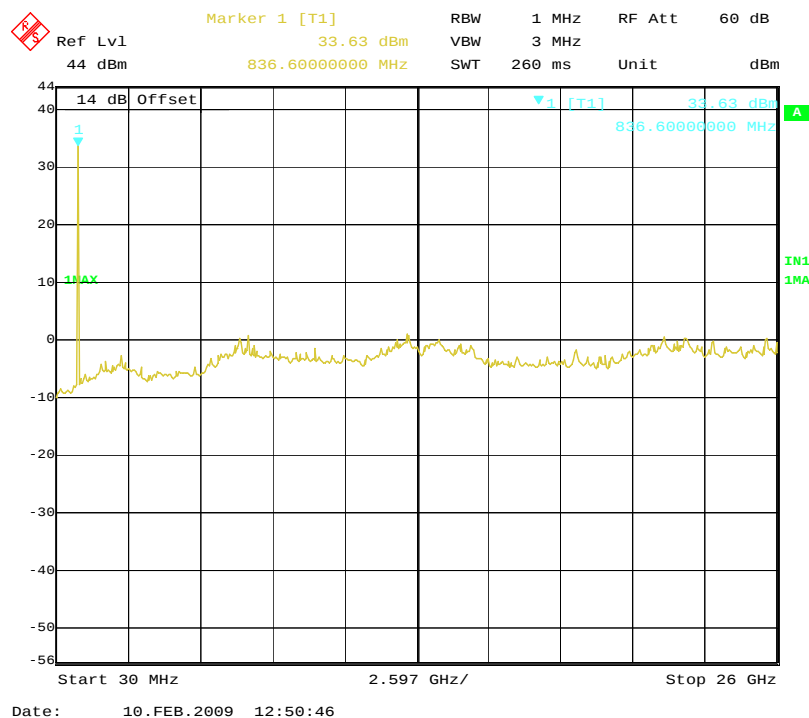
REPORT NO.: I08GW7473-FCC-EMC

Test Results for EGPRS mode:

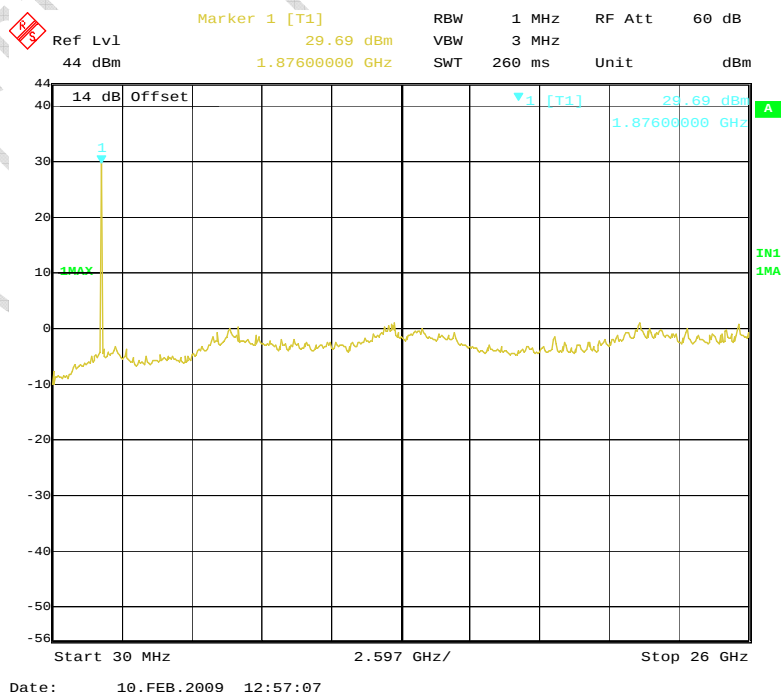
Out of band emission

Frequency [MHz]	Level (dBm)
--	--

Graphical results for EGPRS mode:



Channel 190



Channel 661

FCC Parts 2, 22, 24
Equipment: 810-F

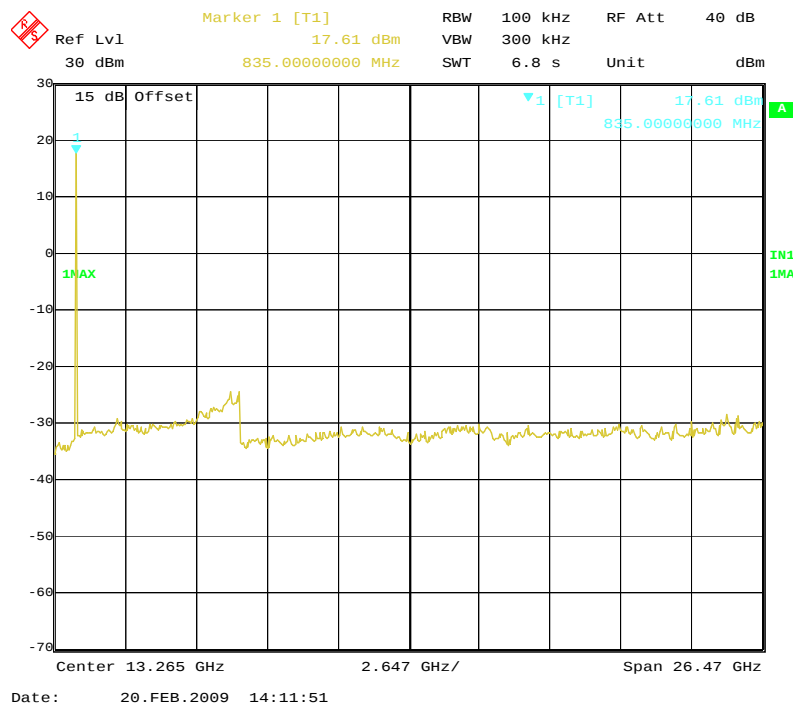
REPORT NO.: I08GW7473-FCC-EMC

Test Results for WCDMA mode:

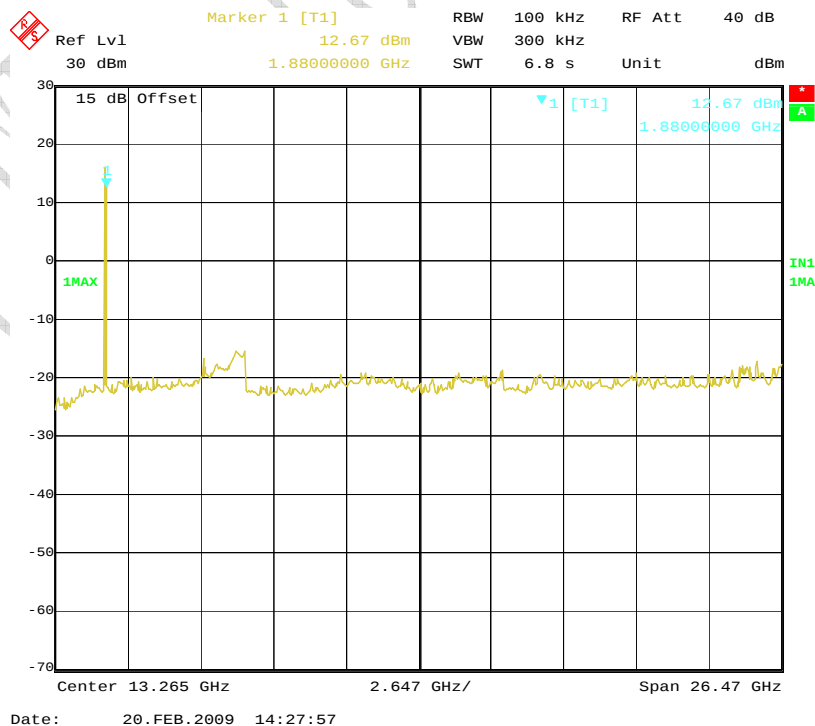
Out of band emission

Frequency [MHz]	Level (dBm)
--	--

Graphical results for WCDMA mode:



Channel 4175



Channel 9400

FCC Parts 2, 22, 24
Equipment: 810-F

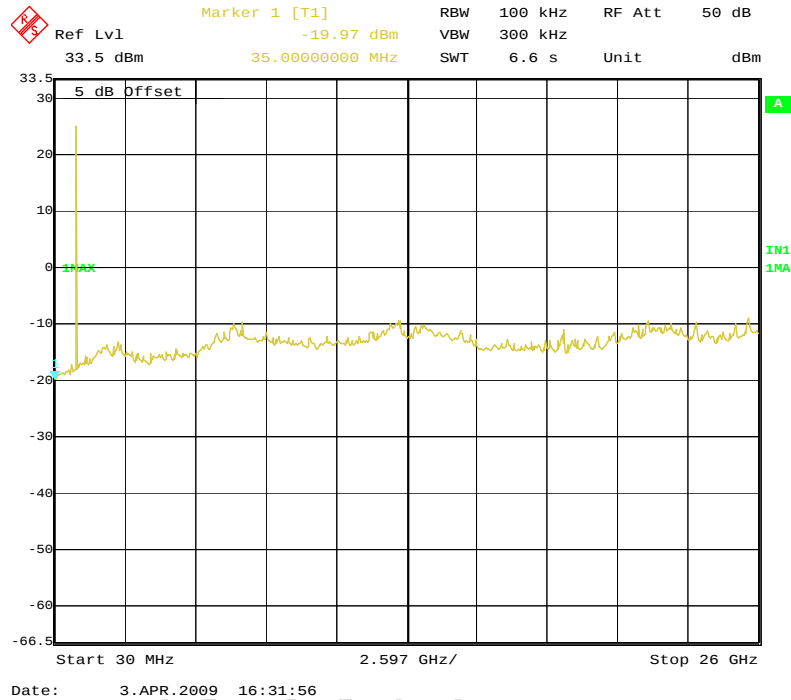
REPORT NO.: I08GW7473-FCC-EMC

Test Results for HSDPA mode:

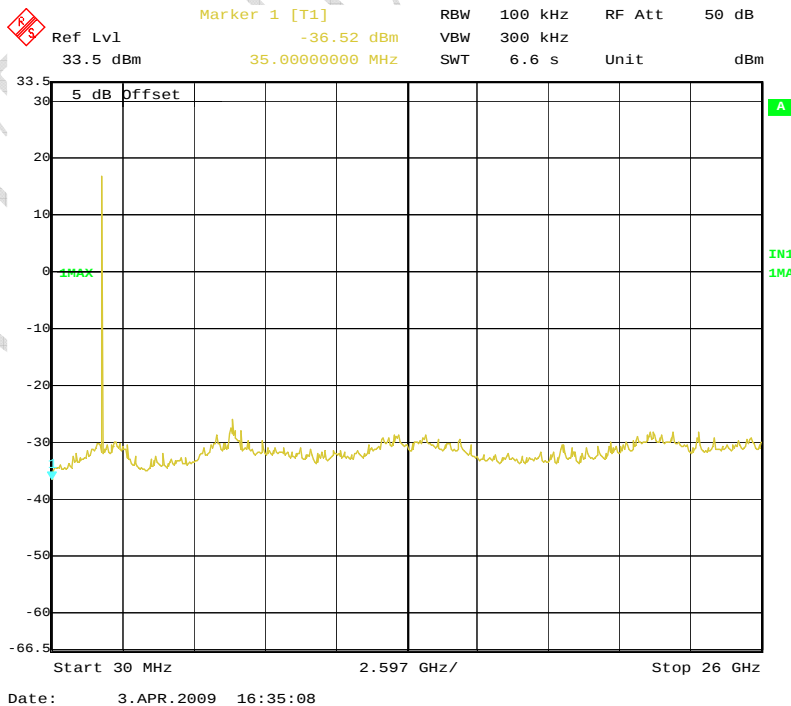
Out of band emission

Frequency [MHz]	Level (dBm)
--	--

Graphical results for HSDPA mode:



Channel 4175



Channel 9400

4.8 Band Edge

Specifications:	2.1051, 24.238, 2.1053, 22.917					
Date of Tests	2008-2-5/10/27, 2009-4-3					
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 128, 251, 512 and 810 for GSM, 4132, 4233, 9262, 9538 for WCDMA					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2010-01-11	Normal
023	Wireless Communications Test Set	Agilent	8960(E5515C)	GB41450323	2009-06-13	Normal
---	Power splitter	Jie sai	---	1000132	2010-01-04	Normal
111835	Wireless Communications Test Set	R&S	CMU200	1100000802	--	Normal

Limit Level Construction:

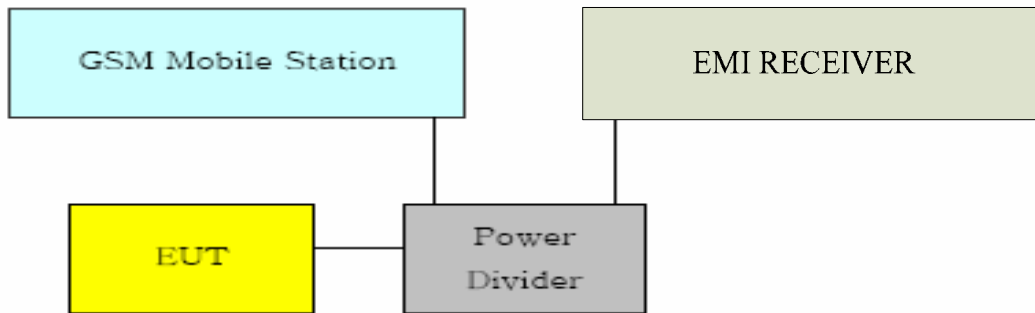
According to Part 24.238 (a), i.e., Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB, so the limit level is:
 $P(\text{dBm}) - (43 + 10 \log(P)) \text{ dB} = -13\text{dBm}$

Limits for Radiated spurious emissions(UE)

Frequency range	Limit Level /Resolution Bandwidth
30 MHz to 20000 MHz	-13dBm/1MHz

Test Setup:

During the process of testing, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by Rhode & Schwarz EMI test receiver (ESI26).



Test Method

- 1) The EUT was coupled to the EMI test receiver analyzer mode and the base station simulator through a power divider. The radio frequency load attached to the EUT antenna terminal was 50 Ohm. The loss of the cables the test system is calibrated to correct the readings.
- 2) The spectrum analyzer was set to Maxpeak Detector function and Maximum hold mode.
- 3) The resolution bandwidth of the spectrum analyzer was comparable to the emission bandwidth.

Note: --

Test Results:

GSM mode:

Band-edge emission		
EUT Channel	Frequency [MHz]	Level [dBm]
128 Left band edge	824.00160321	-14.72
251 Right band edge	848.99839679	-15.84
512 Left band edge	1849.98557	-15.44
810 Right band edge	1910.02244	-16.43

GPRS mode:

Band-edge emission		
EUT Channel	Frequency [MHz]	Level [dBm]
128 Left band edge	824.00160321	-14.60
251 Right band edge	848.99438878	-13.42
512 Left band edge	1850.00160	-13.45
810 Right band edge	1910.00240	-16.79

EGPRS mode:

Band-edge emission		
EUT Channel	Frequency [MHz]	Level [dBm]
128 Left band edge	824.00561122	-13.10
251 Right band edge	848.99839679	-13.63
512 Left band edge	1850.00561	-13.88
810 Right band edge	1909.99038	-15.19

WCDMA mode:

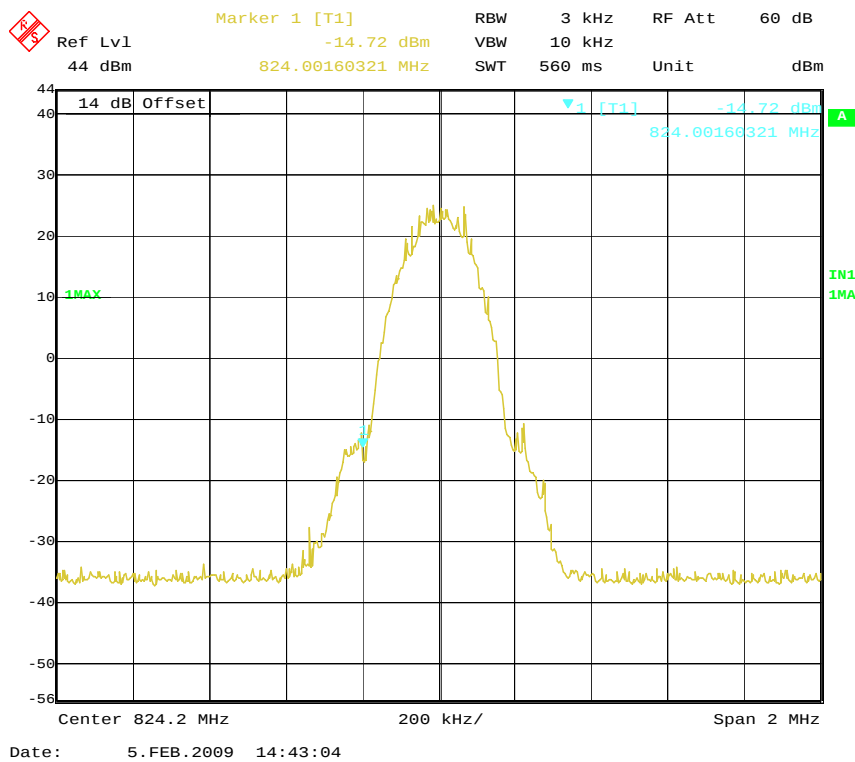
Band-edge emission		
EUT Channel	Frequency [MHz]	Level [dBm]
4132 Left band edge	824.00601202	-18.79
4233 Right band edge	849.01482966	-20.50
9262 Left band edge	1850.04489	-22.59
9538 Right band edge	1910.01483	-20.57

HSDPA mode:

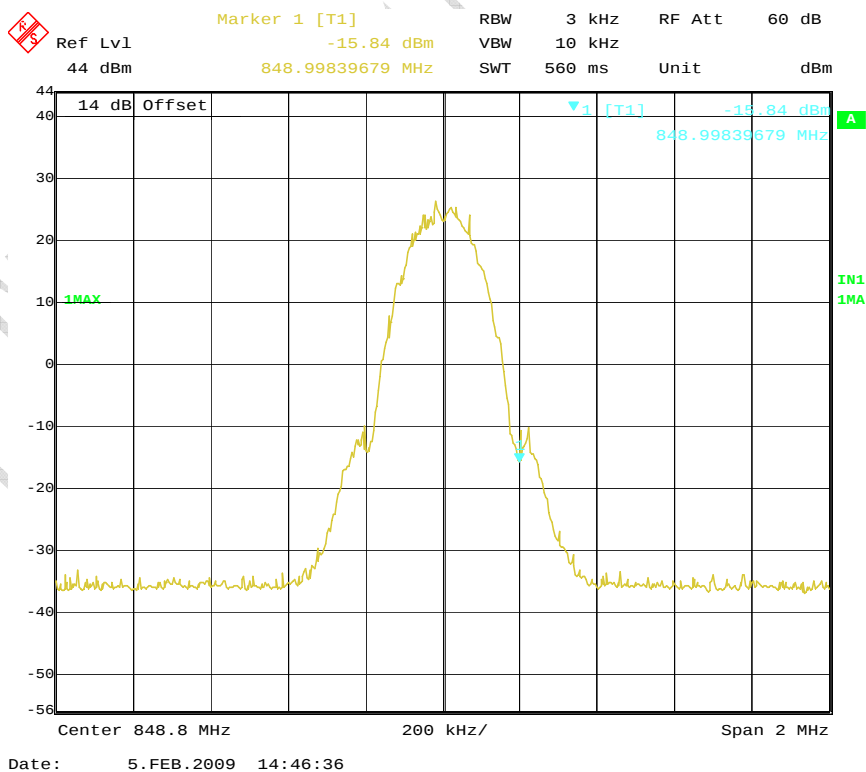
Band-edge emission		
EUT Channel	Frequency [MHz]	Level [dBm]
4132 Left band edge	823.94509018	-13.94
4233 Right band edge	849.05490982	-14.42
9262 Left band edge	1849.92505	-14.80
9538 Right band edge	1910.01483	-14.09

FCC Parts 2, 22, 24
Equipment: 810-F

REPORT NO.: I08GW7473-FCC-EMC



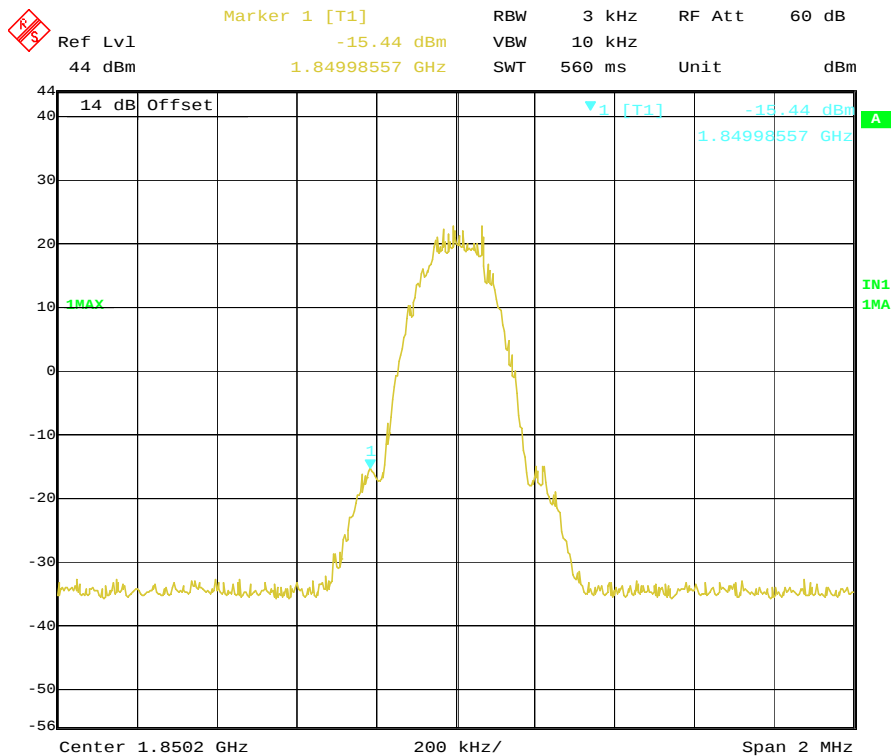
GSM channel 128 Left band edge



GSM channel 251 Right band edge

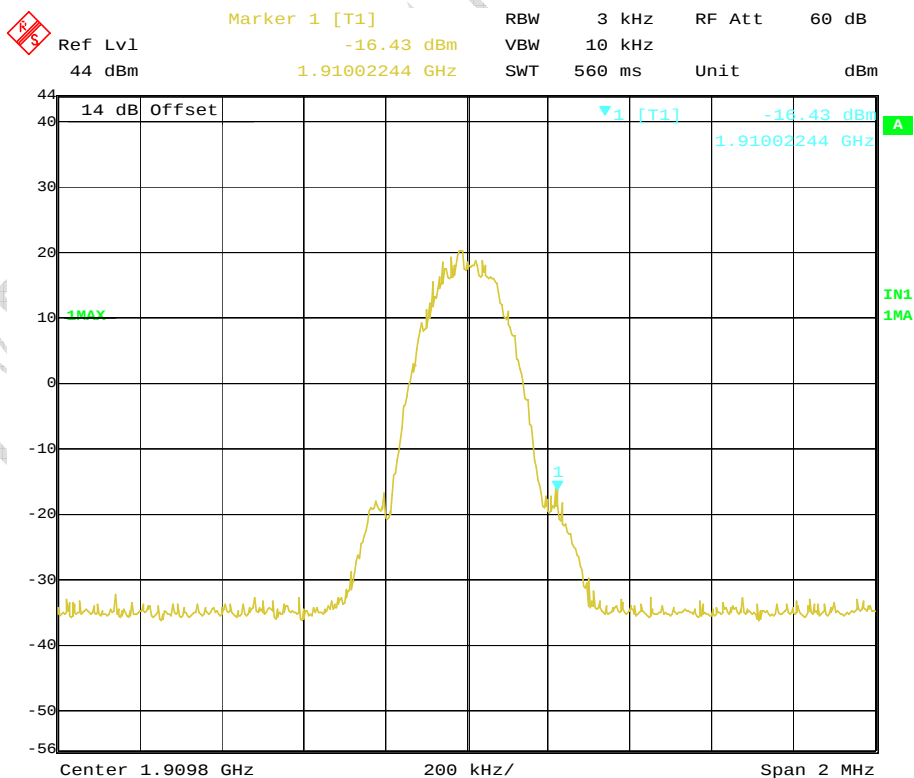
FCC Parts 2, 22, 24
Equipment: 810-F

REPORT NO.: I08GW7473-FCC-EMC



Date: 5.FEB.2009 14:52:08

GSM channel 512 Left band edge

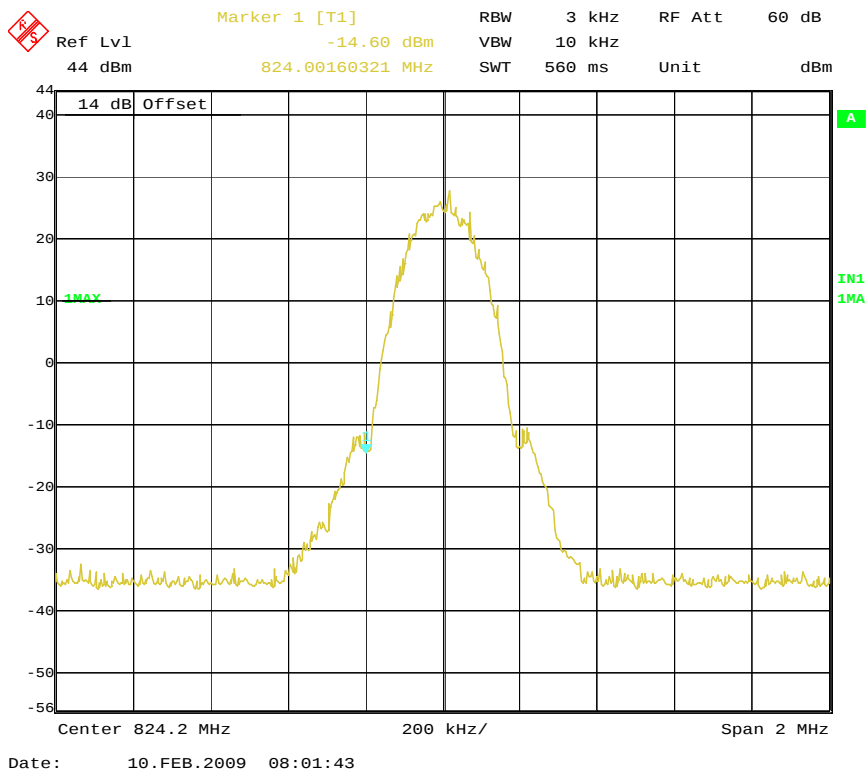


Date: 5.FEB.2009 14:54:16

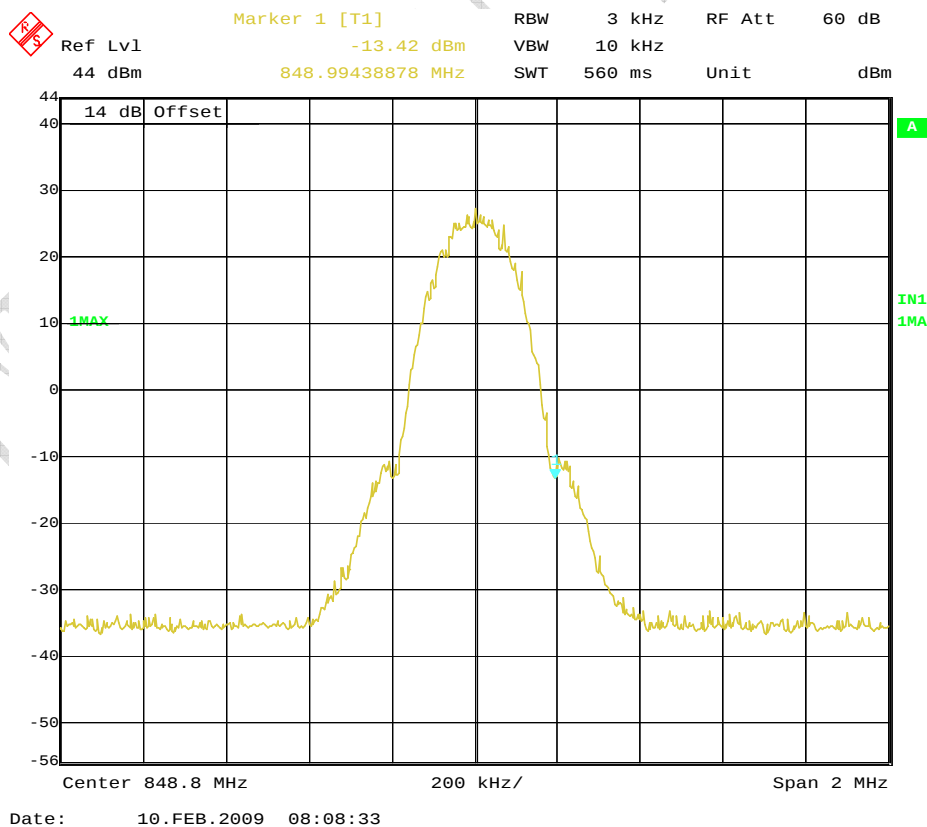
GSM channel 810 Right band edge

FCC Parts 2, 22, 24
Equipment: 810-F

REPORT NO.: I08GW7473-FCC-EMC



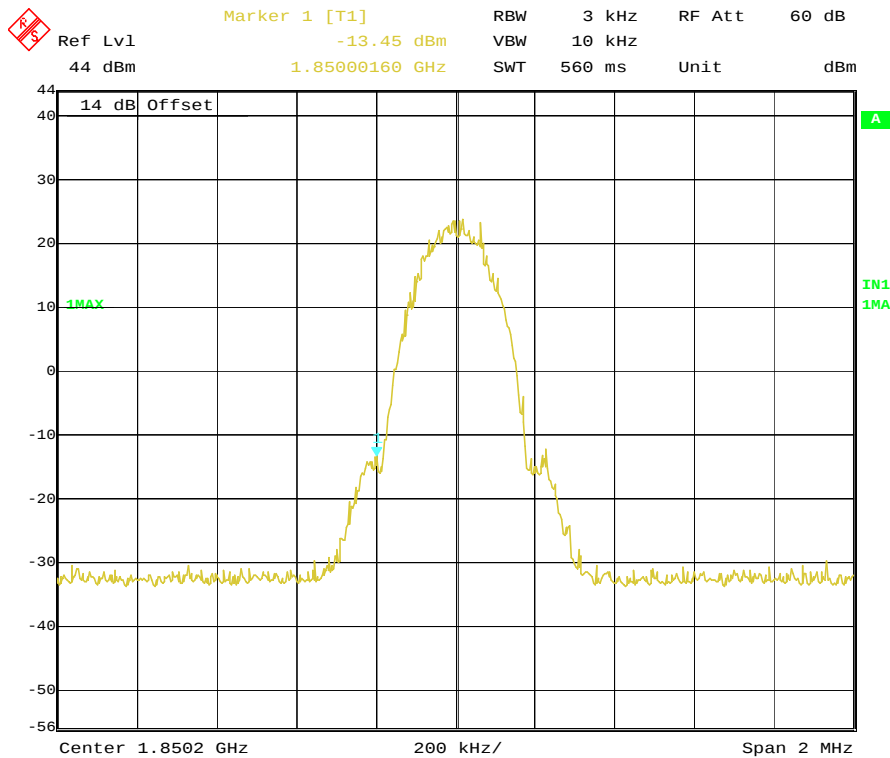
GPRS channel 128 Left band edge



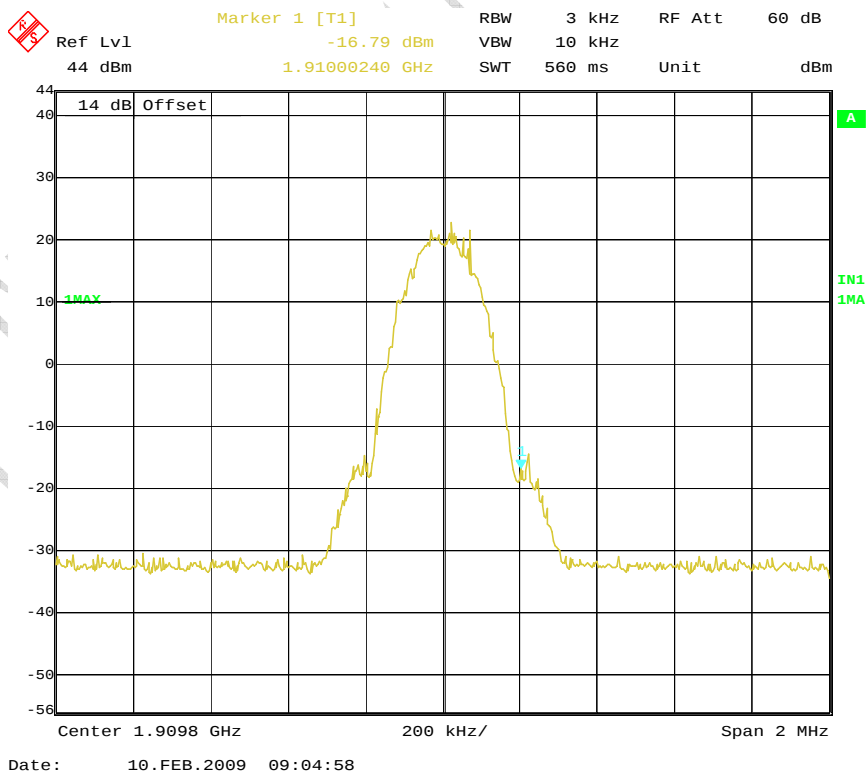
GPRS channel 251 Right band edge

FCC Parts 2, 22, 24
Equipment: 810-F

REPORT NO.: I08GW7473-FCC-EMC



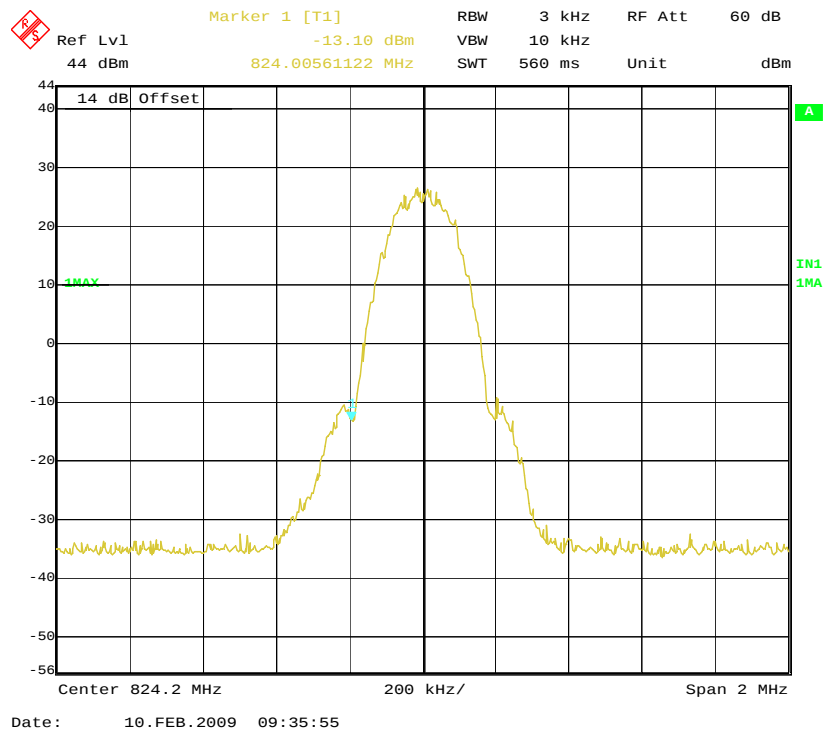
GPRS channel 512 Left band edge



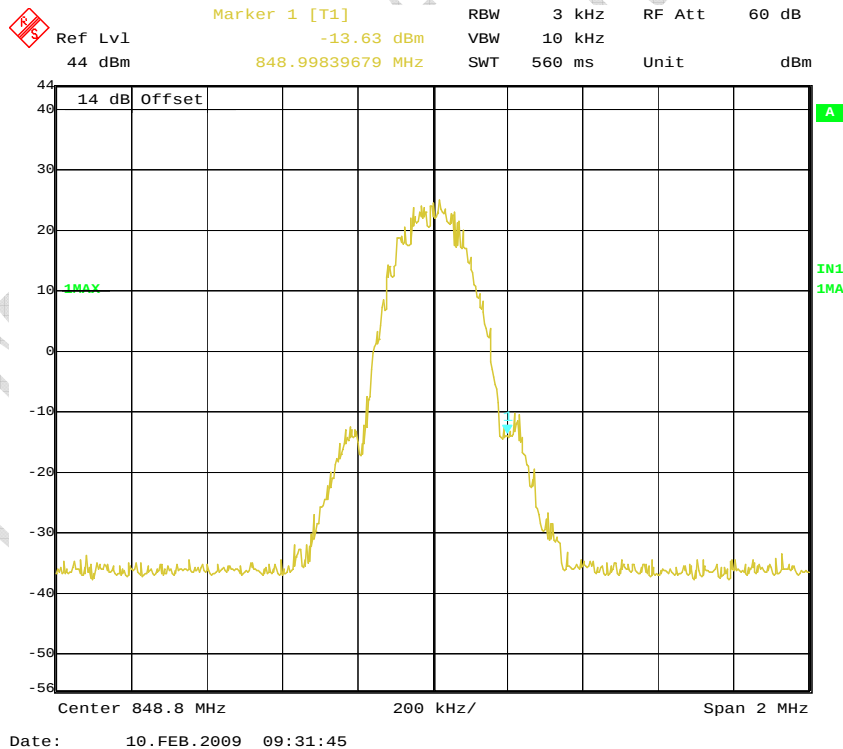
GPRS channel 810 Right band edge

FCC Parts 2, 22, 24
Equipment: 810-F

REPORT NO.: I08GW7473-FCC-EMC



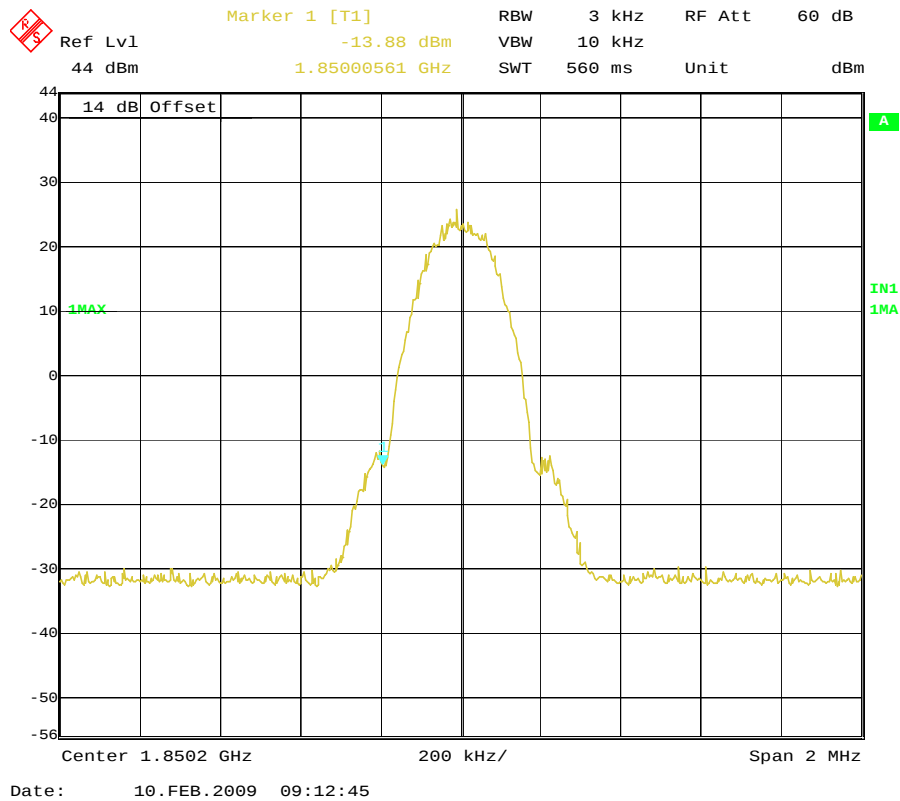
EGPRS channel 128 Left band edge



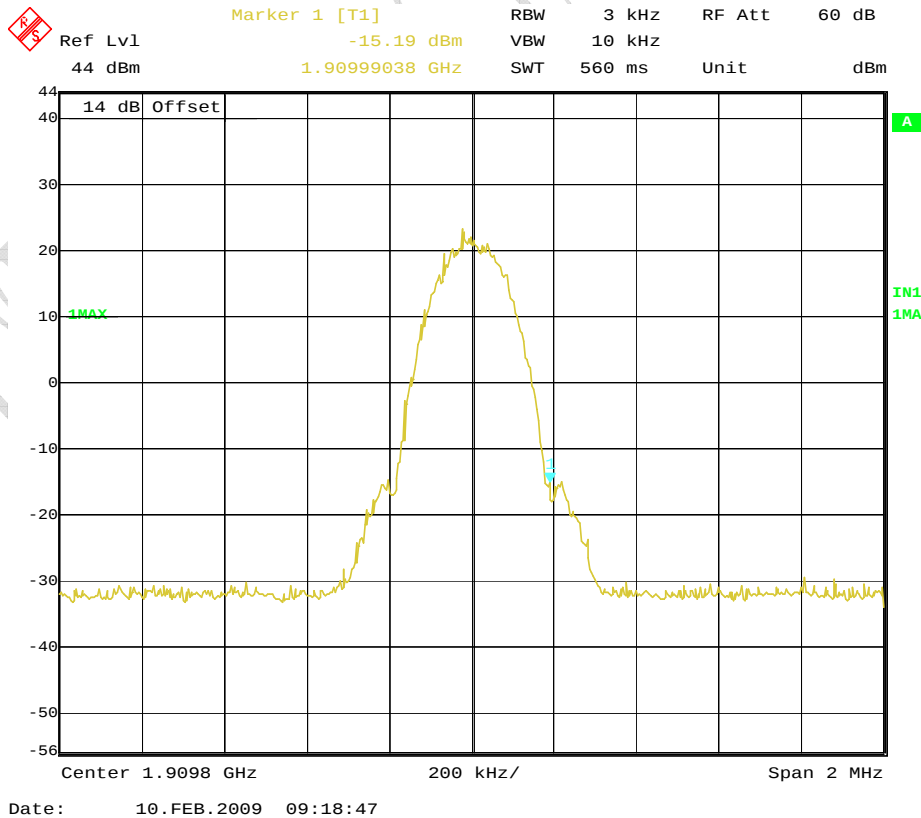
EGPRS channel 251 Right band edge

FCC Parts 2, 22, 24
Equipment: 810-F

REPORT NO.: I08GW7473-FCC-EMC



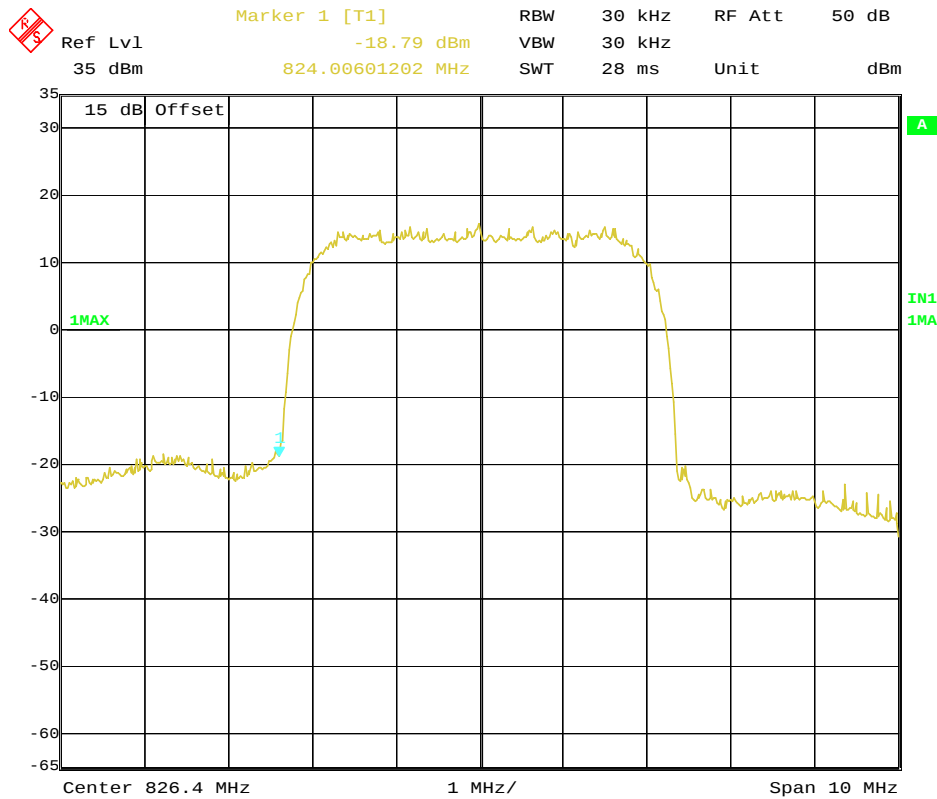
EGPRS channel 512 Left band edge



EGPRS channel 810 Right band edge

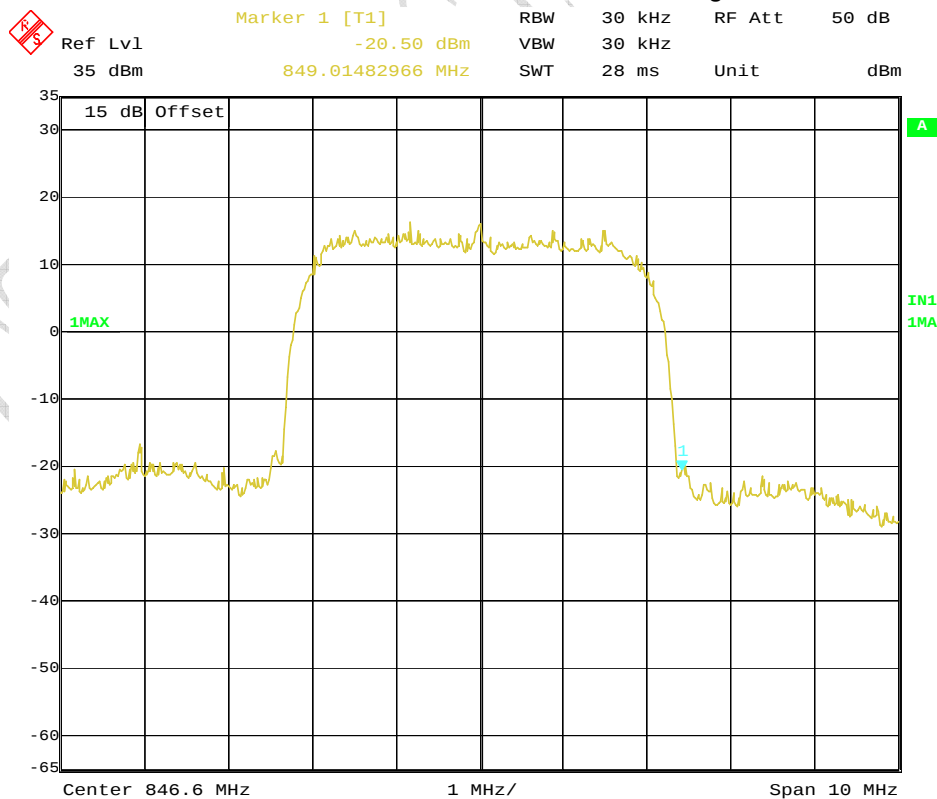
FCC Parts 2, 22, 24
Equipment: 810-F

REPORT NO.: I08GW7473-FCC-EMC



Date: 27.FEB.2009 10:28:49

WCDMA channel 4132 left band edge

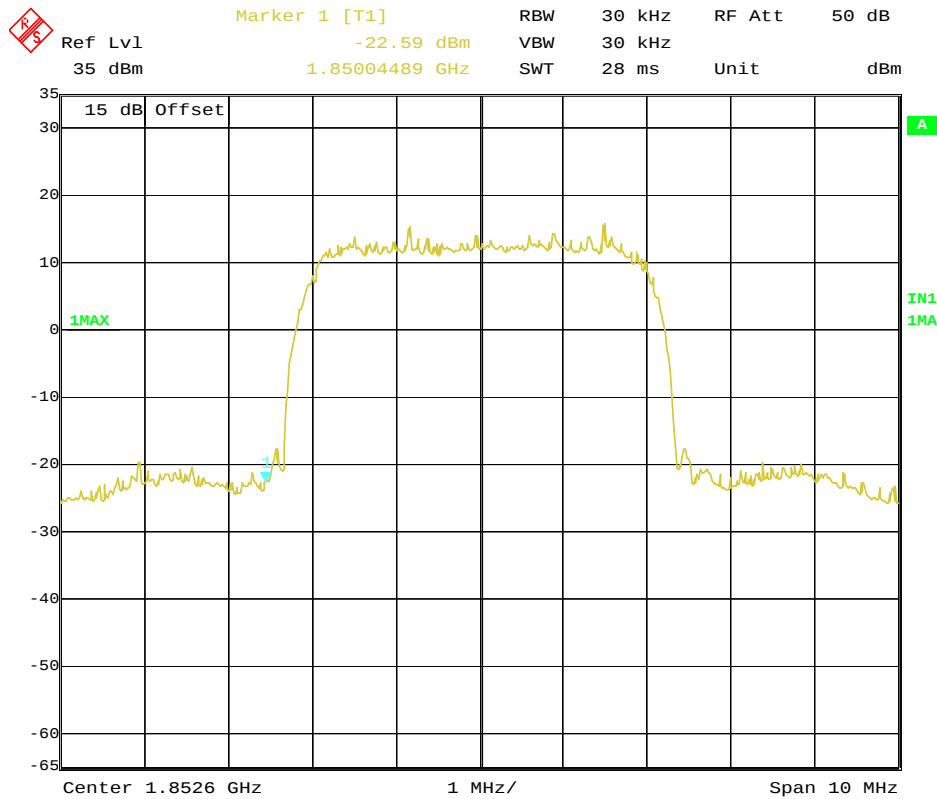


Date: 27.FEB.2009 10:31:31

WCDMA channel 4233 right band edge

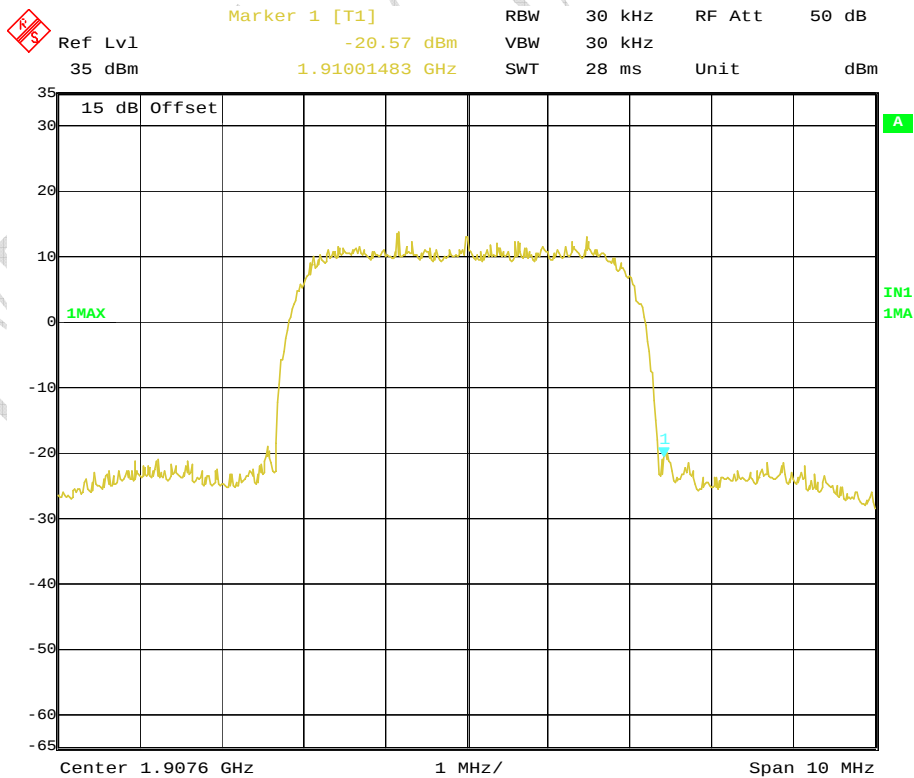
FCC Parts 2, 22, 24
Equipment: 810-F

REPORT NO.: I08GW7473-FCC-EMC



Date: 27.FEB.2009 10:38:33

WCDMA channel 9262 left band edge

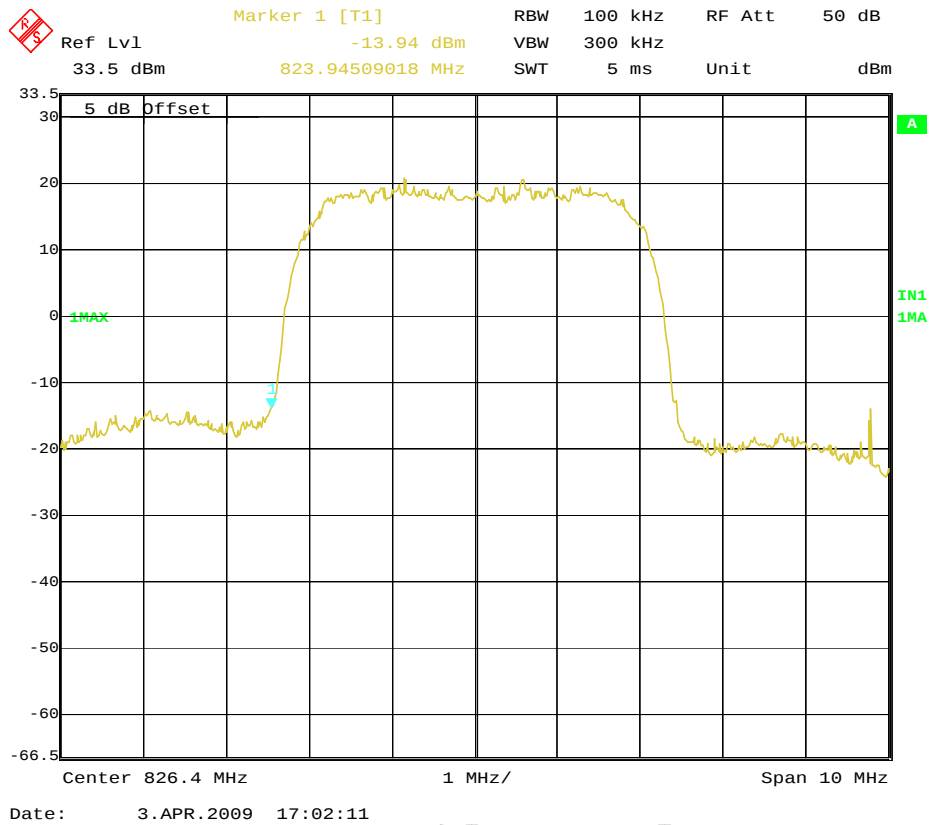


Date: 27.FEB.2009 10:40:34

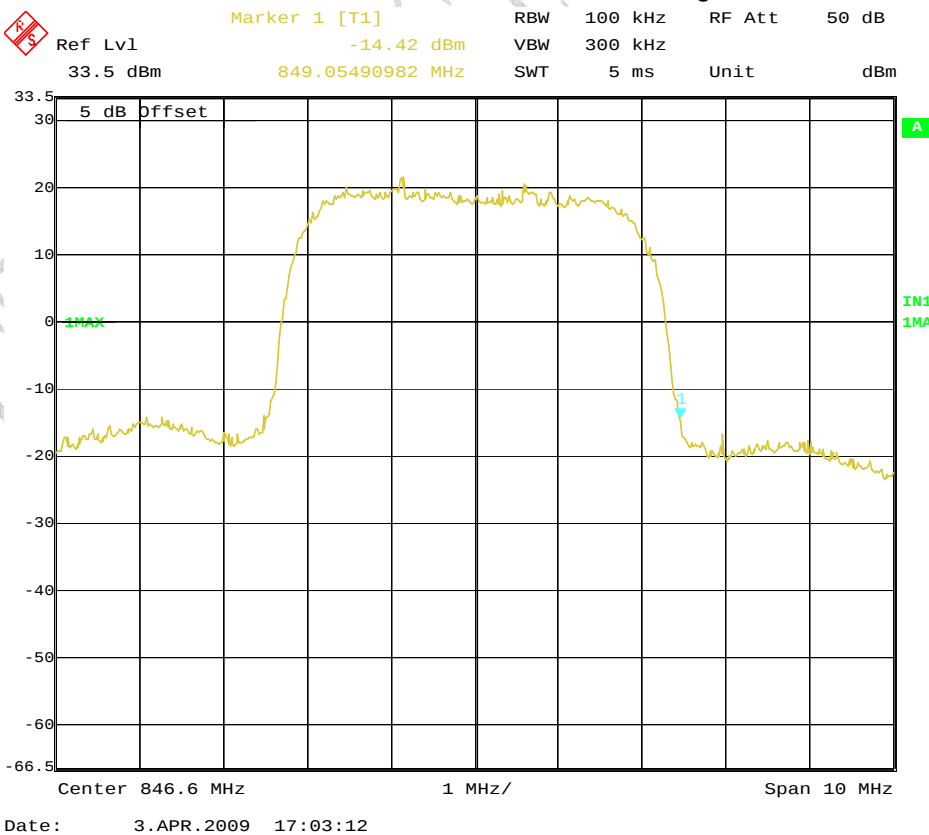
WCDMA channel 9538 right band edge

FCC Parts 2, 22, 24
Equipment: 810-F

REPORT NO.: I08GW7473-FCC-EMC



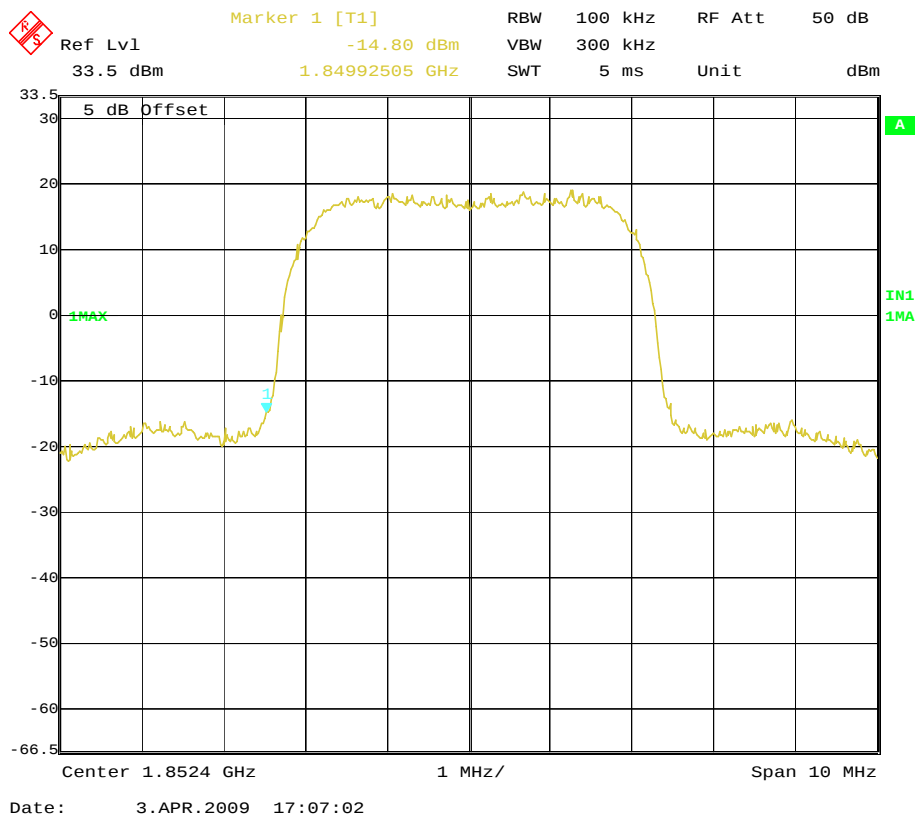
HSDPA channel 4132 left band edge



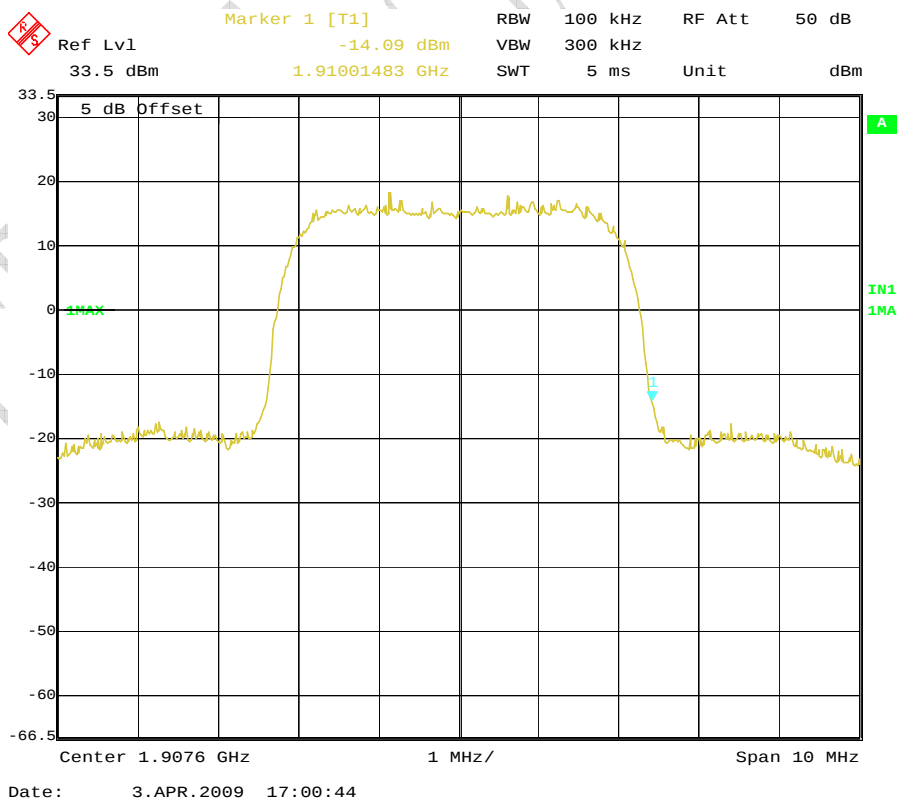
HSDPA channel 4233 right band edge

FCC Parts 2, 22, 24
Equipment: 810-F

REPORT NO.: I08GW7473-FCC-EMC



HSDPA channel 9262 left band edge



HSDPA channel 9538 right band edge

Annex A External Photos



Front view



Back view



Adaptor face



Adaptor back

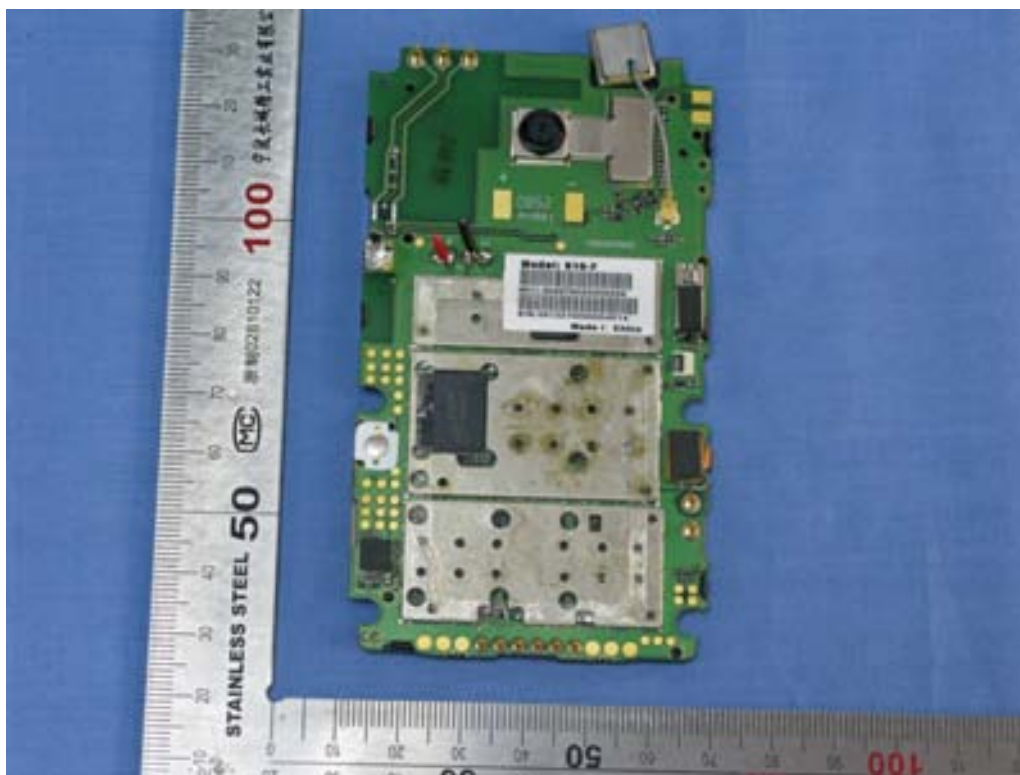


cable



Adaptor connector

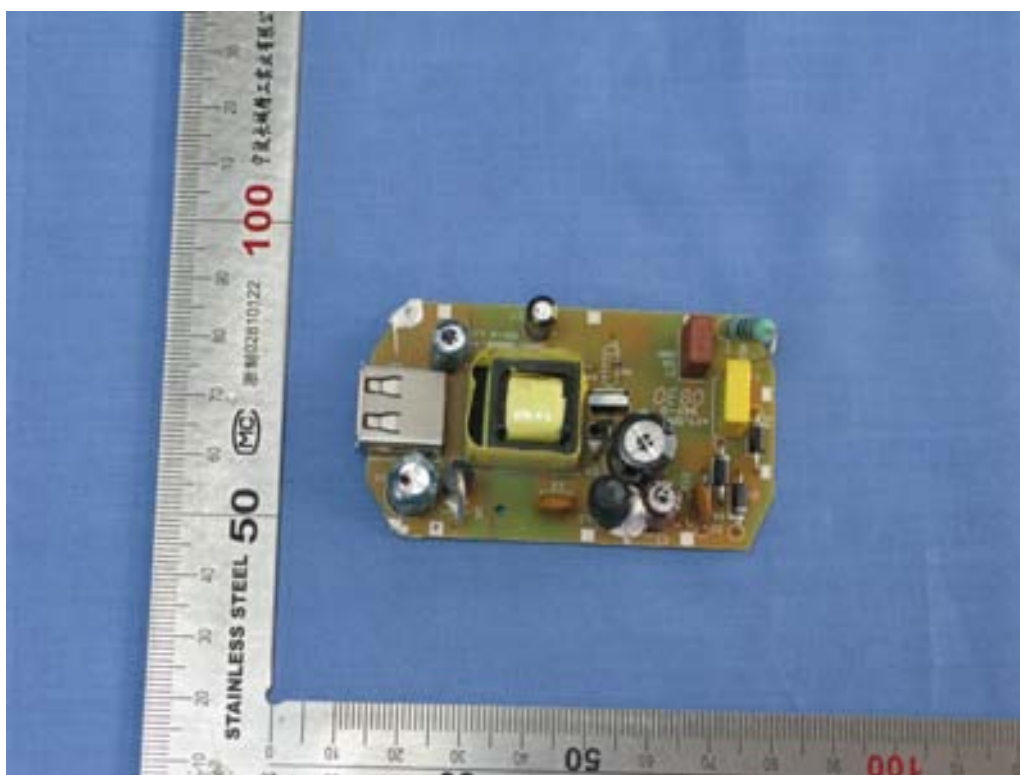
Annex B Internal Photos



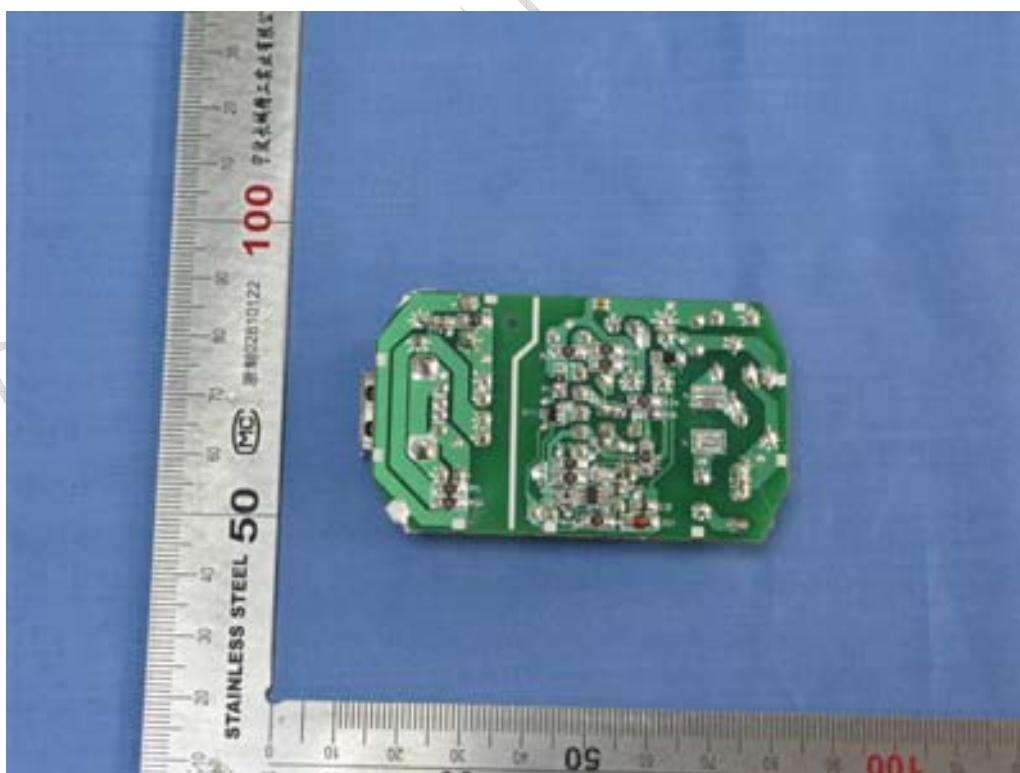
Main board (face)



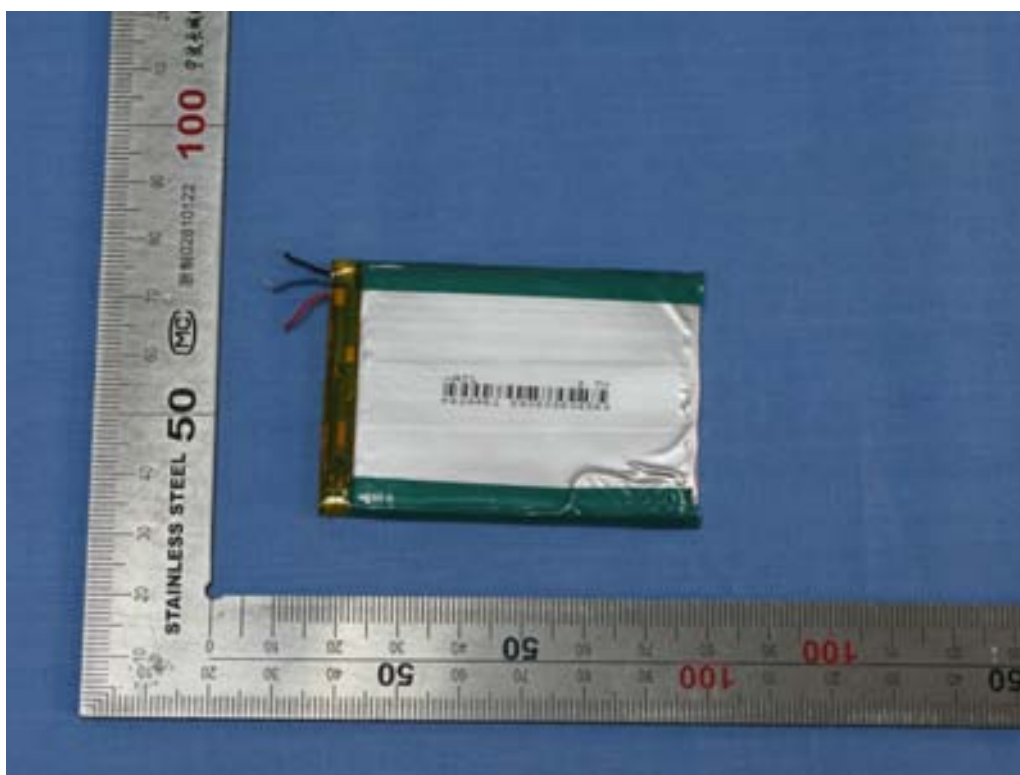
Main board (back)



Adaptor (face)



Adaptor (back)



Battery



Shell



Shell

ANNEX C Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

_____ The End of this Report _____

CTL Test Report