



EMC Test Report

Product Name: HSDPA/UMTS/GPRS/GSM/EDGE Mobile

Phone with Bluetooth

Model Number: HUAWEI U8500/U8500/HUAWEI U8500-

6/U8500-6

Report No: SYBH(Z-EMC) 045022011-2

FCC ID: QISU8500-6

Reliability Laboratory of Huawei Technologies Co., Ltd.

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Notice 1

- 1. The laboratory has obtained the accreditation of China National Accreditation Service for Conformity Assessment (CNAS), and accreditation number: L0310.
- 2. The laboratory has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements. The site recognition number is 97456.
- 3. The laboratory has been listed by industry Canada to perform electromagnetic emission measurement. The site recognition number is 6369A-1.
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- 5. The test report is invalid if not marked with the stamps or the signatures of the persons responsible for performing, revising and approving the test report.
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Notice 2

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REPORT ON	HSDPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth		
	HUAWEI U8500/U8500/HUAWEI U8500-6/U8500-6		
REGULATION	FCC CFR47 Part 15: Subpart B;		
	FCC CFR47 Part 22: Subpart H;		
	FCC CFR47 Part 24: Subpart E;		
START OF TEST	Mar.15,2011		
END OF TEST	Mar.23,2011		
Final Judgement:	Pass		

Approved By	2011-03-23	Liuchunlin	Lin Churlin
, _ф р. Сос. 2 у	Date	Name	Signature
Reviewed By	2011-03-23	Dailinjun	Dailingtun
·	Date	Name	Signature
Operator	<u>2011-03-23</u>	Wenjianfeng	Wenjiantery
	Date	Name	Signature

FCC Test Report of HUAWEI U8500/U8500/HUAWEI U8500-6/U8500-6 FCC ID: QISU8500-6



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1 Status

1.1 Product Information

CLIENT:	Huawei Technologies Co., Ltd.
ADDRESS:	Bantian Longgang District Shenzhen, P.R. China
MANUFACTURING DESCRIPTION	HSDPA/UMTS/GPRS/GSM/EDGE Mobile Phone
WANDI ACTORING BESCRIFTION	with Bluetooth
MANUFACTURERS MODEL NUMBER	HUAWEI U8500/U8500/HUAWEI U8500-6/U8500-6

1.2 Test Site

Site 1:

EMC LABORATORY OF RELIABILITY LABORATORY OF HUAWEI TECHNOLOGIES CO., LTD

1.3 Test environment condition

Ambient temperature	20~25°C
Relative humidity	40%~52%
Atmospheric pressure	101kPa



2 Summary of Results

Table below shows a brief summary of the results obtained.

Summary of results

EUT Classification: Wireless Terminal						
Test Items	Test Configuration &Test Mode	Required Performance Criteria	Result	Site		
Radiated Emissions Enclosure Port	TC1/TC2 (TM13-TM24)	N/A	Pass	Site1		
Conducted Emissions	TC1 (TM1-TM24)	N/A	Pass	Site1		
Radiated Spurious Emissions Enclosure Port	TC1 (TM1-TM10)	N/A	Pass	Site1		

Note:

^{1,} Measurement taken is within the measurement uncertainty of measurement system.

^{2,} TC = Test configuration



3 Equipment Specification

3.1 General Description

HSDPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth-HUAWEI U8500/ U8500/HUAWEI U8500-6/U8500-6 is subscriber equipment in the WCDMA/GSM system. The HSDPA frequency bands are Band I and Band II and Band V, but only Band II and Band V test data included in this report. The GSM/GPRS/EDGE frequency bands include GSM850 and GSM900 and DCS1800 and PCS1900, but only GSM850 and PCS1900MHz band test data included in this report. The Mobile Phone implements such functions as RF signal receiving/transmitting, HSDPA and GSM/GPRS/EDGE protocol processing, voice, video, MMS service, GPS, and WIFI etc. Externally it provides micro SD card interface, earphone port (to provide voice service) and USIM card interface. It also provides Bluetooth module to synchronize data between a PC and the phone, or to use the built-in modem of the phone to access the Internet with a PC, or to exchange data with other Bluetooth devices.

3.1.1 Main Equipment Technical Data

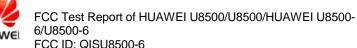
Description:	HSDPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth
Models:	HUAWEI U8500/U8500/HUAWEI U8500-6/U8500-6
Input Rated Voltage	3.7V
Extreme Voltage	3.6V and 4.2V
Rated Power	Normal 3W ,Max 8 W
Dimensions	111.5mm (L)×56mm (W)×12.8mm (H)
Weight	<120g (with battery)

Sub-Assembly Identity

Mode		Work Frequency		
		Transmitt Frequency	Receive Frequency	
		(MHz)	(MHz)	
GSM	GSM850	824 - 849	869 - 894	
	PCS1900	1850-1910	1930-1990	
WCDMA WCDMA850		827-847	872- 892	
WCDMA1900		1853-1908 1933-1988		
Bluetooth		2400-2483.5		
WIFI		2400-2483.5		

Sub-Assembly Identity

Board					
Model Name	Qty.		Serial	Description	
HD1U850M		1	K2M7NA1111000135	Main board of Mobile Phone	
			Accessory		
Name	Qt Manufacture		Serials number	Description	
Adapter 1	1	Huawei Technologies Co., Ltd.	XQH962654263	Adapter Model: HW-050100U1W Input Voltage: ~100-240V 50/60Hz 0.2A	
				Output Voltage: === 5.0V 1A Rated Power: 5W	
Rechargeable Li-ion	1	Huawei Technologies Co., Ltd.	UNHA917XA3707152	Battery Model: HB5A2H Rated capacity: 1150mAh	
				Nominal Voltage: === +3.7V	
		23., 2101		Charging Voltage: +4.2V	





System Configuration during EMC Test

The Equipment under Test (EUT) was functioning correctly during all tests. The EUT was installed within the test site and was configured to simulate a typical user installation.

4.1 **Cables Used during Test**

Cable Used during Test

Cable	Quantity	Type of Cable
USB	1	shielded
Earphone	1	Unshielded

4.2 **Associated Equipment Used during Test**

Associated Equipment Used during Test

Name	Model	Manufacturer	S/N	Cal Date
Radio Communication Tester	CMU200	R&S	3607111817	2010-7-23
Notebook	D81	DELL	3105083303	NA

4.3 **Test Configurations and Test Mode**

Test Configuration. 4.3.1

The EUT will be connected to test system (Base Station Simulator) in order to simulate normal operating conditions (with reference to the guidance given in the standard for this type of equipment).

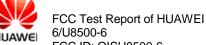
TC1:EUT powered with an adapter and connected to the test system (Base Station Simulator). TC2:EUT connected to the notebook by USB port.

Configuration table

Test Mode 4.3.2

There were 124est Modes. TM1 to TM24 were shown in the diagrams below:

TM1	operate in traffic mode GSM850;
TM2	operate in traffic mode GSM1900;
TM3	operate in traffic mode GPRS850;
TM4	operate in traffic mode GPRS 1900;
TM5	operate in traffic mode EDGE850;
TM6	operate in traffic mode EDGE1900;
TM7	operate in traffic mode WCDMA 850;
TM8	operate in traffic mode WCDMA 1900;
TM9	operate in traffic mode HSDPA 850;
TM10	operate in traffic mode HSUPA 1900;
TM11	operate in traffic mode Bluetooth;
TM12	operate in traffic mode WIFI;
TM13	operate in idle mode GSM850;
TM14	operate in idle mode GSM1900;
TM15	operate in idle mode GPRS850;
TM16	operate in idle mode GPRS 1900;





TM17	operate in idle mode EDGE850;
TM18	operate in idle mode EDGE1900;
TM19	operate in idle mode WCDMA 850;
TM20	operate in idle mode WCDMA 1900;
TM21	operate in idle mode HSDPA 850;
TM22	operate in idle mode HSDPA 1900;
TM23	operate in idle mode Bluetooth;
TM24	operate in idle mode WIFI;

The EUT will be connected to test system (Base Station Simulator) in order to simulate normal operating conditions (with reference to the guidance given in the standard for this type of equipment).

4.4 **Test conditions and test Connections**

4.4.1 **Test Conditions**

The EUT will be connected to test system (Base Station Simulator) in order to simulate normal operating conditions (with reference to the guidance given in the standard for this type of equipment).

4.4.2 Test connections

Traffic Mode:

The EUT is required to be in the traffic mode, a call is set up according to the generic call set up procedure and enter the EUT into loop back test mode. (WCDMA see 3GPP TS 34.121, GSM see ETSI TS 151.010).

For WCDMA, the following conditions shall also be met:

Logical Test Interface for details regarding generic call set-up procedure and BER, BLER test loop scenarios:

set and send continuously up power control commands to the UE;

The DTX shall be disabled;

Inner Loop Power Control shall be enabled:

transmitting and/or receiving (UL/DL) bit rate for reference test channel shall be 12.2 kbit / s.

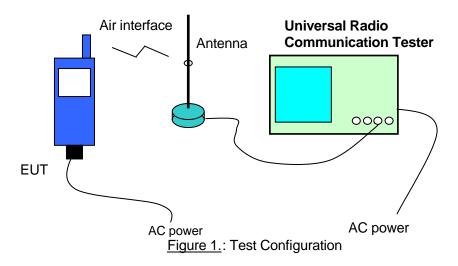
The EUT shall be commanded to operate at maximum transmit power;

For GSM and PCS, the following conditions shall also be met:

The EUT shall be commanded to operate at maximum transmit power;

The downlink RXQUAL shall be monitored.

Assign channel frequency to an appropriate channel number.



Idle Mode:

The EUT is required to be in the idle mode.

For WCDMA, the following conditions shall be met:



UE shall be camped on a cell;

UE shall perform Location Registration (LR) before the test, but not during the test;

UE's neighbour cell list shall be empty;

Paging repetition period and DRX cycle shall be set to minimum (shortest possible time interval).

For GSM850 and PCS1900, the following conditions shall be met::

When the EUT is required to be in the idle mode, the test system shall simulate a Base Station (BS) with Broadcast Control Channel/Common Control Channel (BCCH/CCCH) on one carrier. The EUT shall be synchronized to the BCCH, listening to the CCCH and able to respond to paging messages. Periodic Location Updating shall be disabled.



5 Electromagnetic Interference (EMI)

5.1 Radiated Disturbance 30MHz to 18GHz

5.1.1 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.4. The test distance was 3m.The set-up and test methods were according to ANSI C63.4.

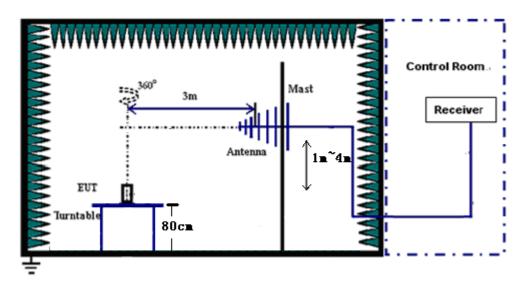
A preliminary scan and a final scan of the emissions were made from 30 MHz to 18 GHz by using test script of software; the emissions were measured using Quasi-Peak Detector (30MHz~1GHz) and AV detector (above 1GHz). The maximal emission value was acquired by adjusting the antenna height, polarisation and turntable azimuth in accordance with the software setup. Normally, the height range of antenna was 1m to 4m, the azimuth range of turntable was 0°to 360°, The receive antenna has two polarizations V and H.

EUT was configured in idle mode and the test performed at worst emission state.

Measurement bandwidth: 30 MHz – 1000 MHz: 120 k Hz

Measurement bandwidth: 1GHz – 18GHz: 1MHz

Test set up figure:



5.1.2 Test Results

The EUT has met the requirements for Radiated Emission of enclosure port.

Test Limits

Fraguency of Emission (MHz)	Radiated Limit				
Frequency of Emission (MHz)	Unit(µv/m)	Unit(dBµV/m)			
30-88	100	40			
88-216	150	43.5			
216-960	200	46			
Above 960	500	54			



5.2 Conducted Disturbance 0.15 MHz to 30MHz

5.2.1 Test Procedure

The Table-top EUT was placed upon a non-metallic table 0.8 m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.4.

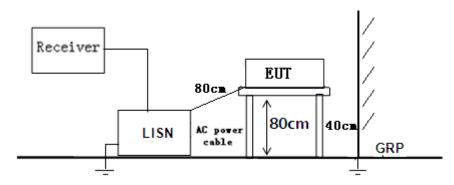
Conducted Disturbance at AC Port measurements were undertaken on the L and N Lines. The emissions were measured using a Quasi-Peak Detector and Average Detector.

Huawei Mobile Station was communicated with the BTS simulator through Air interface, the BTS simulator controls the Mobile Station to transmitter the maximum power which defined in specification of product. The Mobile Station operated on the typical channel.

Measurement bandwidth (RBW) for 150kz to 30 MHz: 9 kHz;

Test Set-up figure:

The Mobile Station was setup in the screened chamber and operated under nominal conditions.



5.2.2 Test Results

The EUT has met requirements for Conducted disturbance of power lines.

Test Limit of DC&AC Power Port

Frequency range	150kHz~ 30MHz			
Classification	Class B			
Limit(Class B)	Voltage limits			
Limit(Class B)	QP	AV		
0.15MHz~0.5MHz	66~56 dBμV 56~46 dBμV			
0.5MHz~5MHz	56 dBµV	46 dBμV		
5MHz~30MHz	60 dBµV	50 dBμV		



5.3 Radiated Spurious Emissions

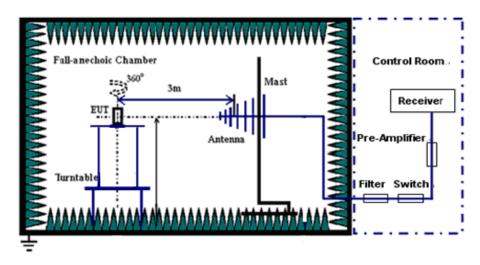
5.3.1 Test Procedure

A test site fulfilling the requirements of ITU-R Recommendation SM329-10 was used. The EUT was placed on a non-conducting support in the anechoic chamber and was operated from a power source via an RF filter to avoid radiation from the power leads.

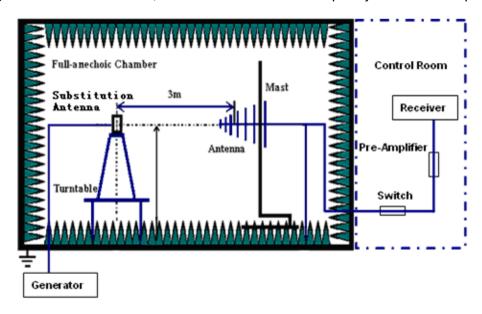
Step 1:

For transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, EIRP shall be measured when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in 2.1033(c)(8). Connect the EUT to the BTS simulator via the air interface.

Test the Radiated maximum output power by the Test Receiver from test antenna.



Step 2:
Use substitution method to verify the maximum output power. The EUT is substituted by a dipole antenna. The dipole is connected to a signal generator. And then adjust the output level of the signal generator to get the same received power recorded in step1 on Test Receiver, and record the power level of Signal Generator. Of course, the cable loss at the test frequency should be compensated.





Test should be performed in normal voltage condition.

22.917(b) Measurement procedure: Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

Measurement bandwidth (RBW) for 9 kHz up to 150 kHz: 1 kHz; Measurement bandwidth (RBW) for 150 kHz up to 30 MHz: 10 kHz; Measurement bandwidth (RBW) for 30MHz up to 1 GHz: 100 kHz; Measurement bandwidth (RBW) for 1GHz up to 18GHz: 1MHz;

Radiated Spurious Emissions Limits

Frequency band	Minimum requirement (E.R.P) traffic mode
9KHz~18GHz	-13dBm

24.238(b) Measurement procedure: Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

Measurement bandwidth (RBW) for 9 kHz up to 150 kHz: 1 kHz; Measurement bandwidth (RBW) for 150 kHz up to 30 MHz: 10 kHz; Measurement bandwidth (RBW) for 30MHz up to 26.5GHz: 1MHz;

Radiated Spurious Emissions Limits

Frequency band	Minimum					
	requirement (E.R.P)					
	traffic mode					
9KHz~26.5GHz	-13dBm					

No peak found in pre- test. All frequency points' margin is bigger than 20dB, so the substitution method isn't used.

Calculation Sample:

Substitution Results

Fred [MHz	 Measure ment Value [dBm]	Substitution Antenna Type	Gain [dBd]	Cable Loss [dB]	Signal Generator Level [dBm]	Substitution Level [dBm]	FCC limit [dBm]	Result

Note: For get the E.R.P. (Efficient Radiated Power) in substitution method, the following formula should take to calculate it,

E.R.P. [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]

NOTE: SGP- Signal Generator Level

5.3.2 Test Results

The EUT has met the requirements of FCC Part22/24.



6 Main Test Instruments

Main Test Equipments

Test item	Test	Instrument	Model	Manufacturer	Cal-Date	Cal Interval (month)
	EMI Test receiver		ESU26	R&S	R&S Jun.25, 2010	
RE&CE	Broadb	and Antenna	VULB 9163	SCHWARZBEC	K May.15, 2010	12
REAGE	Hori	n Antenna	HF906	R&S	May.15, 2010	12
	LISN		ENV216	R&S	Jun.25.2010	12
	EMI Test receiver		ESIB26	R&S	R&S May.05, 2010	
RSE	Horn Antenna		3117	ETS-Lindgren	Dec.13.2010	12
KSE	Broadband Antenna		CBL 6112B	SCHAFFNER	Dec.11.2010	12
	Hori	n Antenna	3160	ETS-Lindgren	ETS-Lindgren Dec.23.2010	
			Software	Information		
Test l	tem	Software Nar	ne Man	ufacturer	Version	
RE/0	CE	ES-K1		R&S	1.7.1	
RSE		EMC32		R&S	S V8.40.10	



7 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty

	Items	Extended Uncertainty		
RE	Field strength (dBµV/m)	U=4.1dB; k=2(30MHz-1GHz)		
RE	Field strength (dBµV/m)	U=4.1dB; k=2(1GHz-18GHz)		
RSE	ERP (dBm)	U=2.2dB; k=2		
CE	Disturbance Voltage (dBµV)	U=3.4dB; k=2		

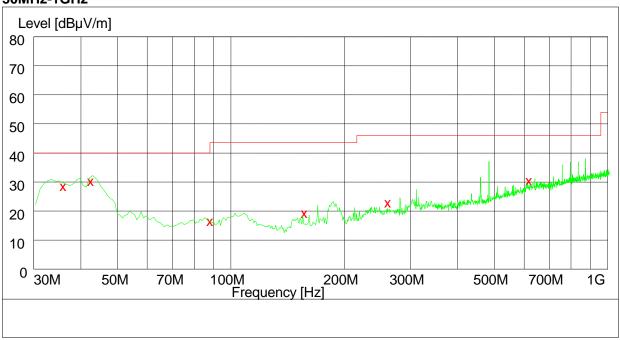


8 Graph and Data of Emission Test

8.1 Radiated Disturbance

This test was carried out in all the test modes, here only the worst test result was shown.

30MHz-1GHz



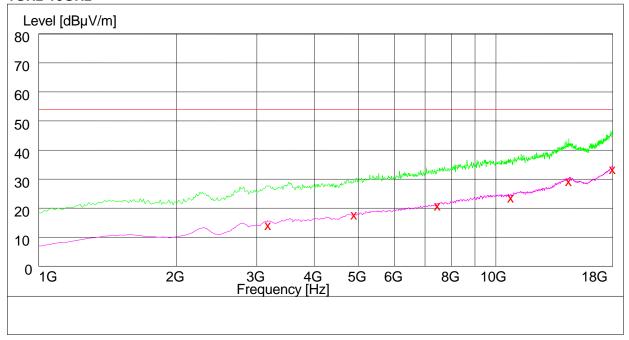
MEASUREMENT RESULT: QP Detector

Frequency	Level	Transd	Limit	Margin	Height	Azimuth	Polarisation
MHz	dBµV/m	dB	dBµV/m	dB	cm	deg	
35.972000	29.30	12.0	40.0	10.7	108.0	201.00	VERTICAL
42.476000	30.00	13.1	40.0	10.0	113.0	276.00	HORIZONTAL
88.204000	17.80	11.2	43.5	25.7	100.0	85.00	HORIZONTAL
157.028000	19.10	9.4	43.5	24.4	135.0	321.00	VERTICAL
261.128000	22.80	14.2	46.0	23.2	140.0	285.00	HORIZONTAL
619.160000	30.40	22.7	46.0	15.6	105.0	219.00	HORIZONTAL





1GHz-18GHz



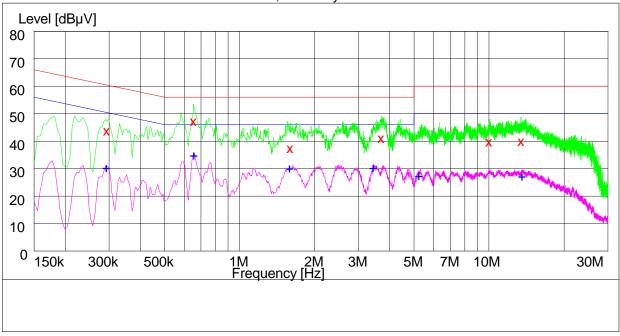
MEASUREMENT RESULT: AV Detector

WEASONEWENT RESOLT. AV Detector									
Frequency	Level	Transd	Limit	Margin	Height	Azimuth	Polarisation		
MHz	dBµV/ m	dB	dBµV/m	dB	cm	deg			
3174.500000	14.10	-8.4	54.0	39.9	121.0	114.00	VERTICAL		
4894.600000	17.70	-3.9	54.0	36.3	150.0	245.00	VERTICAL		
7454.000000	20.80	1.3	54.0	33.2	100.0	258.00	HORIZONTAL		
10789.500000	23.60	6.3	54.0	30.4	200.0	236.00	HORIZONTAL		
14431.300000	29.20	12.2	54.0	24.8	150.0	150.00	VERTICAL		
18000.000000	33.40	17.3	54.0	20.6	149.0	359.00	VERTICAL		



8.2 Conducted Disturbance

This test was carried out in all the test modes, here only the worst test result was shown.



MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.294000	43.80	10.0	60	16.2	L1	FLO
0.656000	47.30	10.1	56	8.7	N	FLO
1.596000	38.70	10.1	56	17.3	L1	FLO
3.696000	41.10	10.2	56	14.9	N	FLO
10.030000	39.80	10.3	60	20.2	N	FLO
13.496000	40.00	10.3	60	20.0	L1	FLO

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.292000	31.70	10.0	51	19.3	L1	FLO
0.656000	36.20	10.1	46	9.8	Ζ	FLO
1.586000	30.50	10.1	46	15.5	L1	FLO
3.428000	31.00	10.2	46	15.0	L1	FLO
5.224000	28.80	10.2	50	21.2	L1	FLO
13.566000	28.50	10.3	50	21.5	L1	FLO

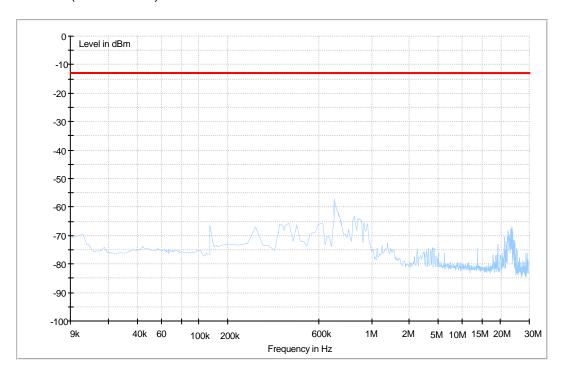


8.3 Radiated Spurious Emission

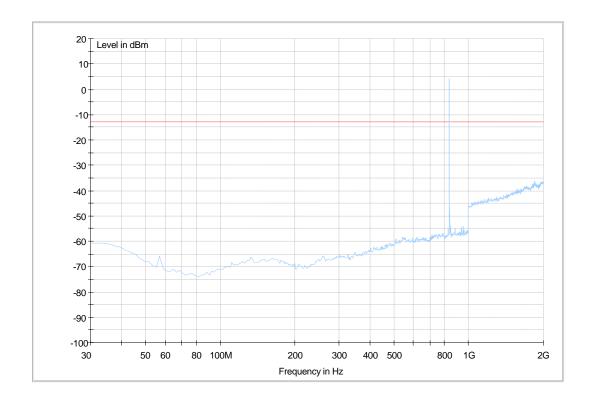
This test results are the maximum level of radiated spurious emissions in vertical and horizontal polarity. The highest peak exceeds the limit line is carrier frequency

8.3.1 For GSM 850

Traffic Mode (9kHz-30MHz)

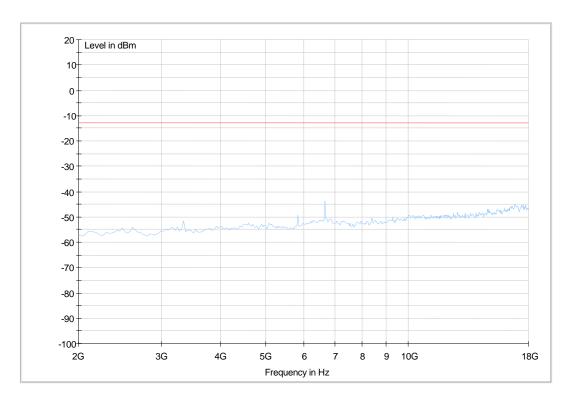


Traffic Mode (30MHz-2GHz)



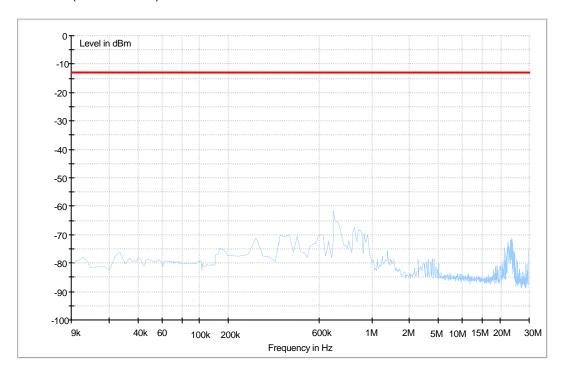


Traffic Mode (2GHz-18GHz)



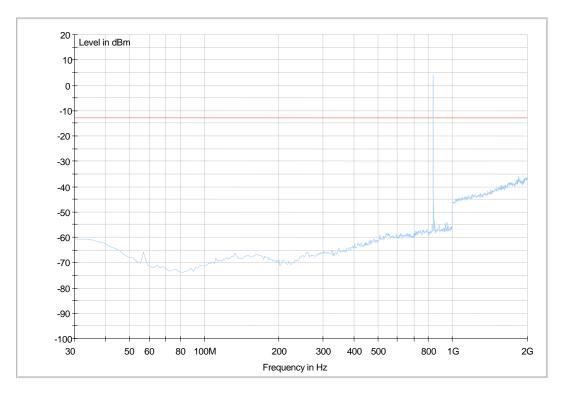
8.3.2 For GPRS 850

Traffic Mode (9kHz-30MHz)

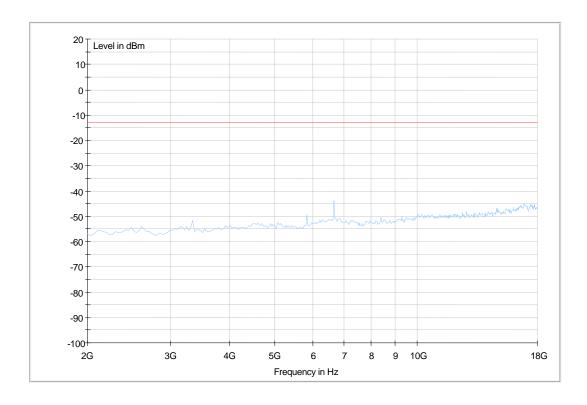




Traffic Mode (30MHz-2GHz)



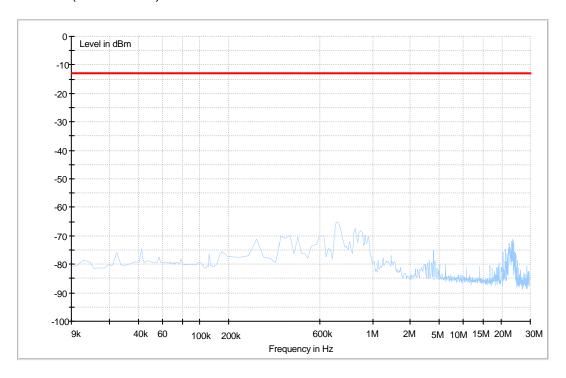
Traffic Mode (2GHz-18GHz)



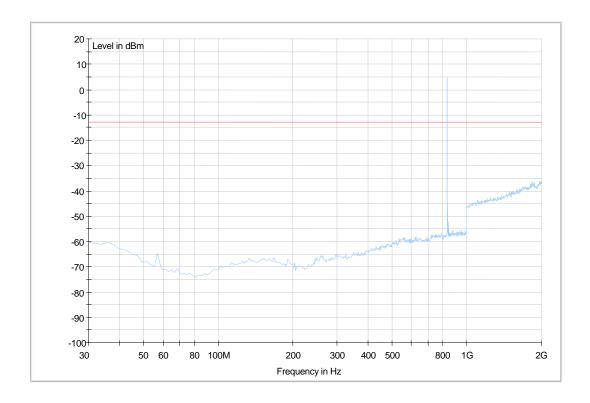


8.3.3 For EDGE 850

Traffic Mode (9kHz-30MHz)

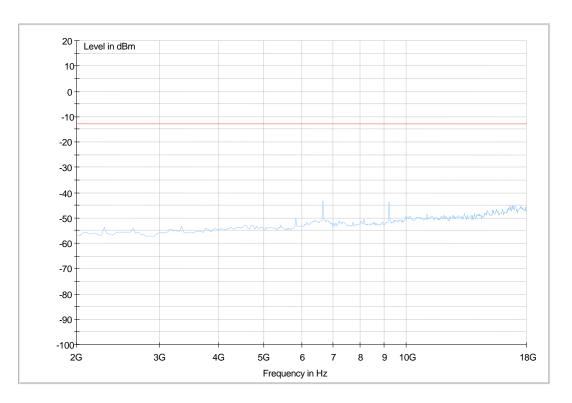


Traffic Mode (30MHz-2GHz)



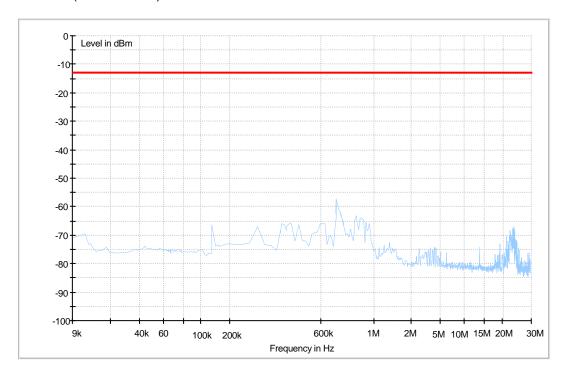


Traffic Mode (2GHz-18GHz)



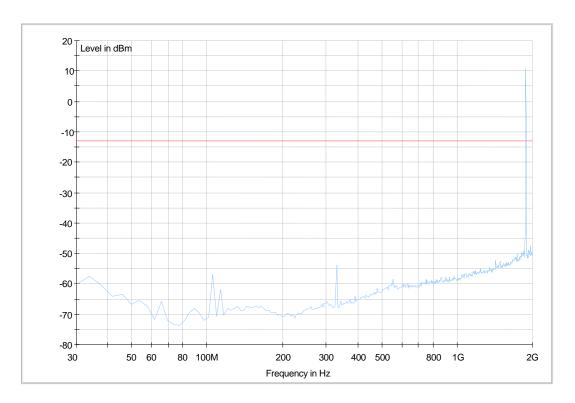
8.3.4 For GSM 1900

Traffic Mode (9kHz-30MHz)

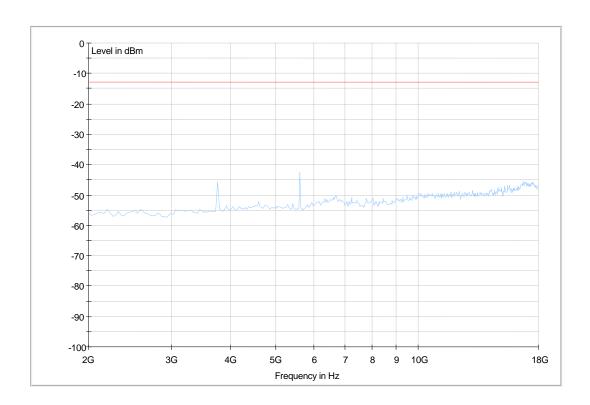




Traffic Mode (30MHz-2GHz)

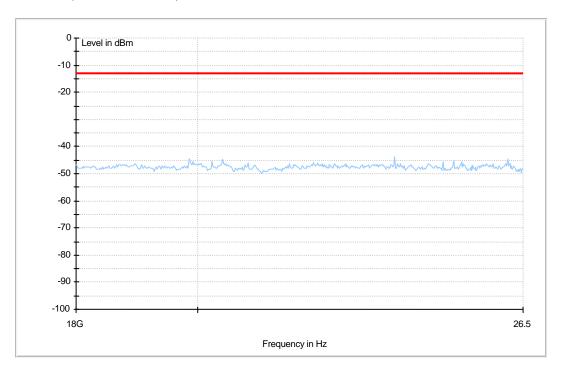


Traffic Mode (2GHz-18GHz)



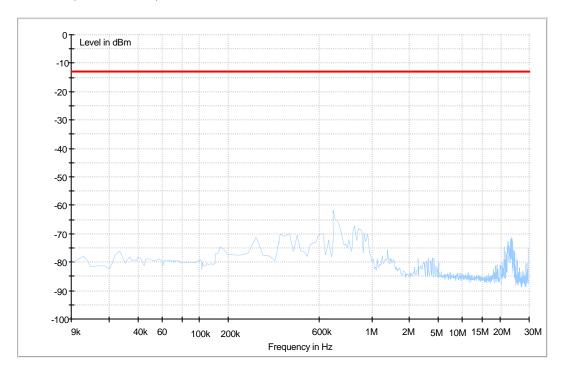


Traffic Mode (18GHz-26.5GHz)



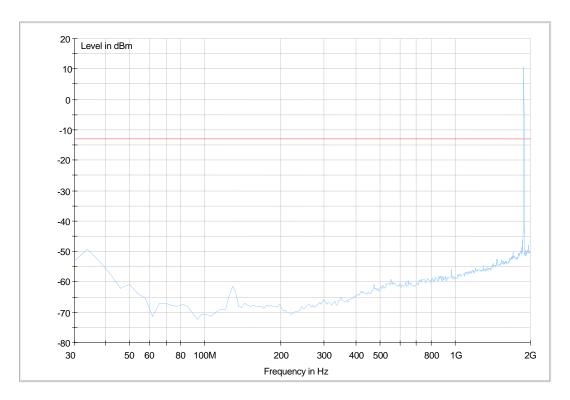
8.3.5 For GPRS 1900

Traffic Mode (9kHz-30MHz)

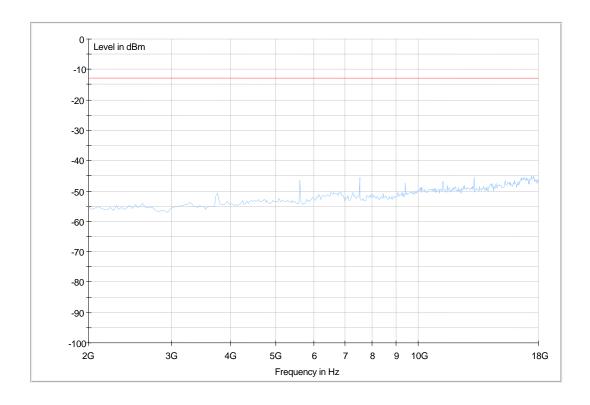




Traffic Mode (30MHz-2GHz)

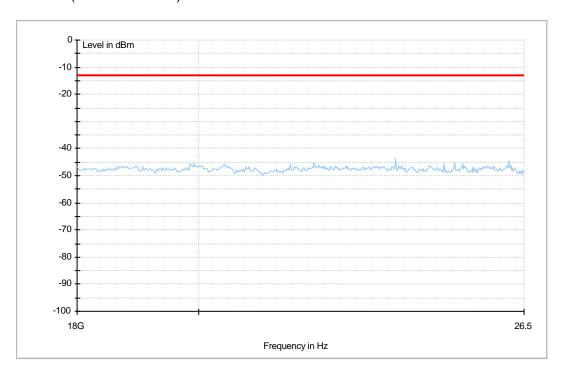


Traffic Mode (2GHz-18GHz)

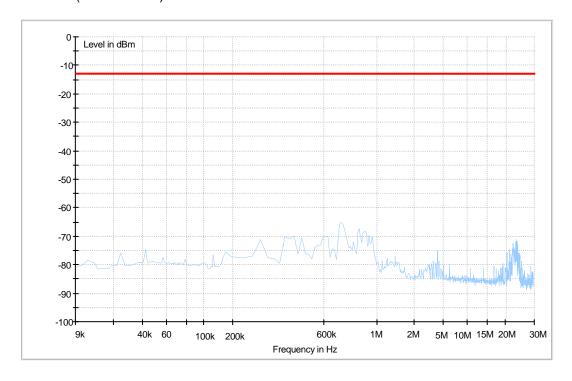




Traffic Mode (18GHz-26.5GHz)

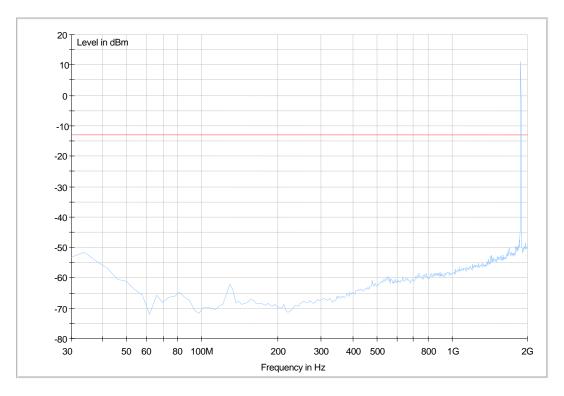


8.3.6 For EDGE 1900 Traffic Mode (9kHz-30MHz)

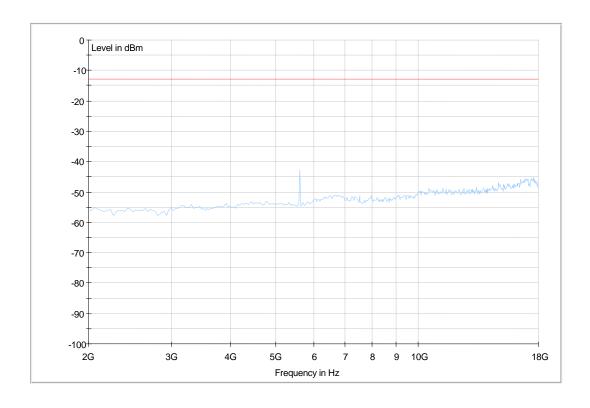




Traffic Mode (30MHz-2GHz)

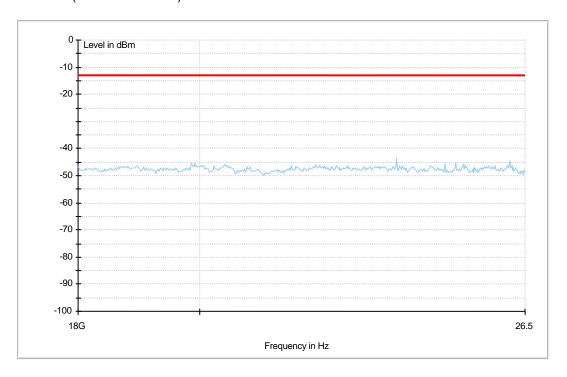


Traffic Mode (2GHz-18GHz)



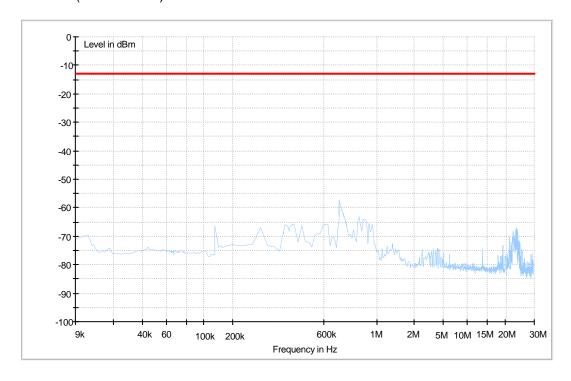


Traffic Mode (18GHz-26.5GHz)



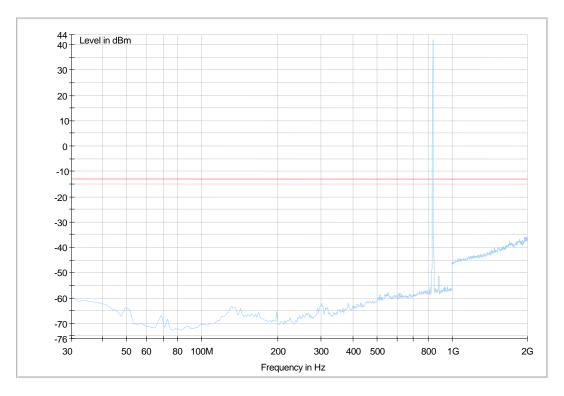
8.3.7 For WCDMA 850

Traffic Mode (9kHz-30MHz)

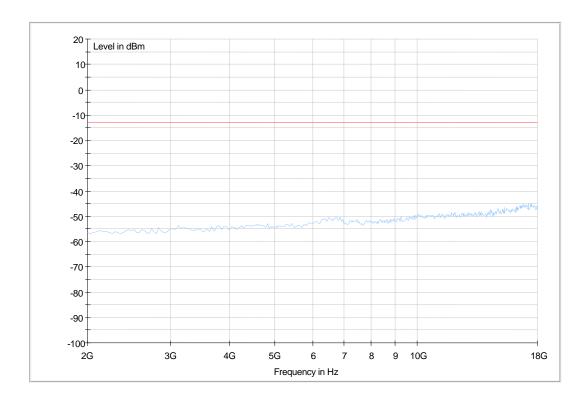




Traffic Mode (30MHz-2GHz)



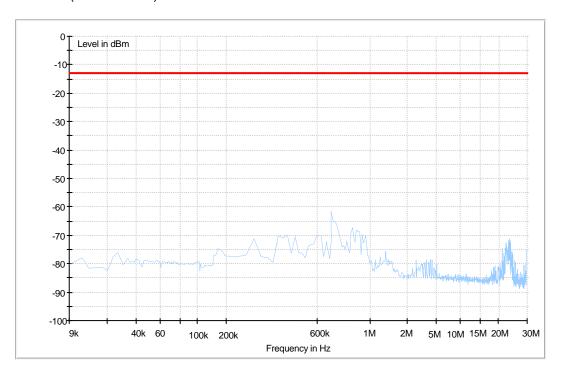
Traffic Mode (2GHz-18GHz)



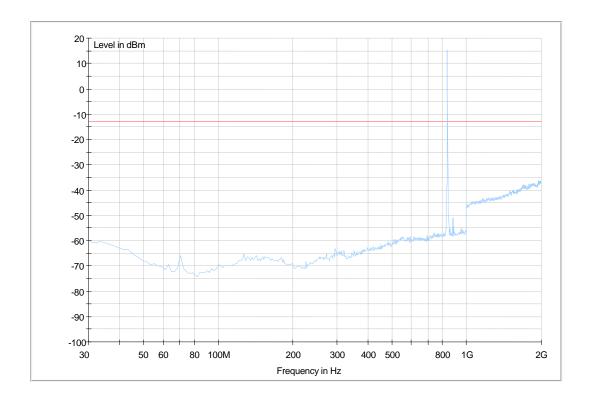


8.3.8 For HSDPA 850

Traffic Mode (9kHz-30MHz)

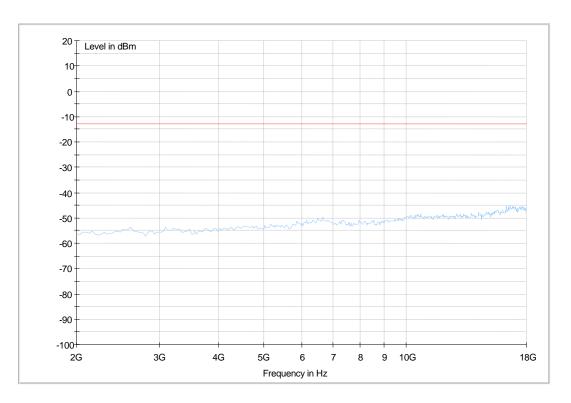


Traffic Mode (30MHz-2GHz)



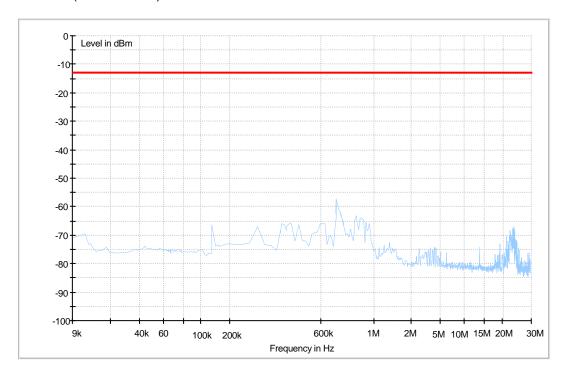


Traffic Mode (2GHz-18GHz)



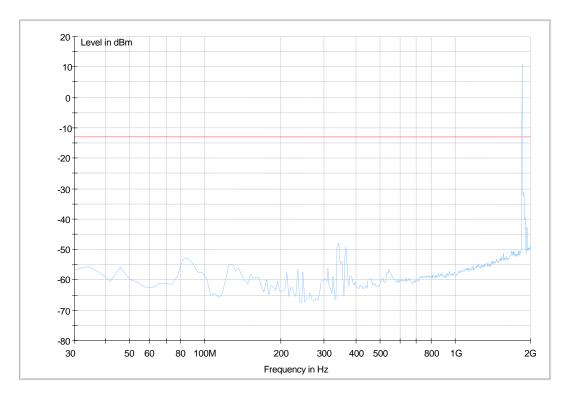
8.3.9 For WCDMA 1900

Traffic Mode (9kHz-30MHz)

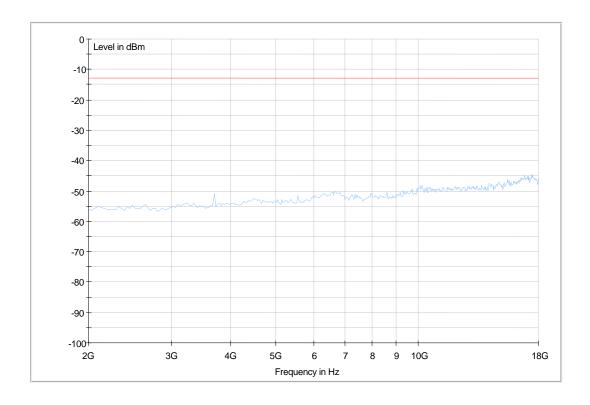




Traffic Mode (30MHz-2GHz)

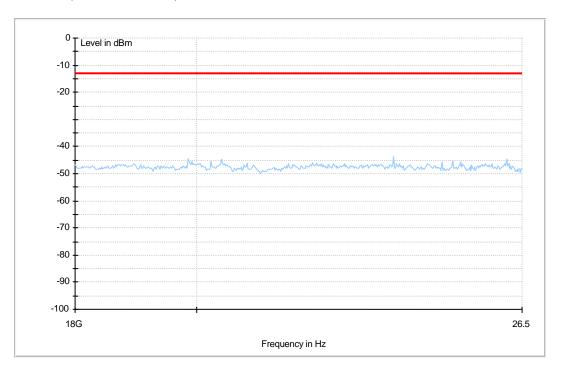


Traffic Mode (2GHz-18GHz)



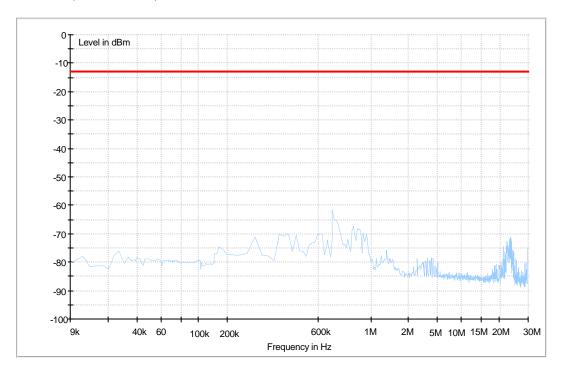


Traffic Mode (18GHz-26.5GHz)



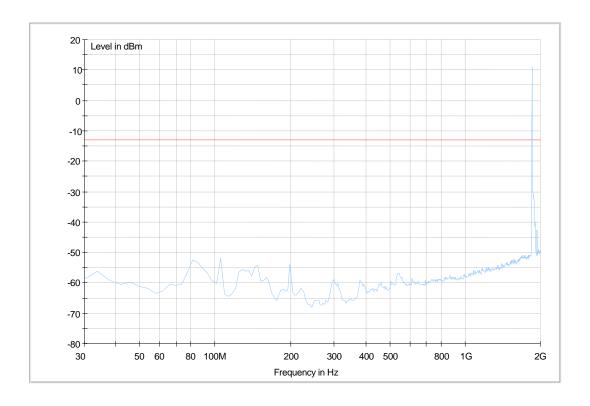
8.3.10 For HSDPA 1900

Traffic Mode (9kHz-30MHz)

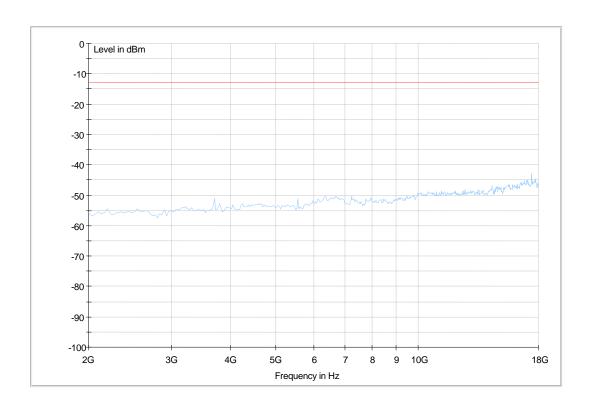




Traffic Mode (30MHz-2GHz)

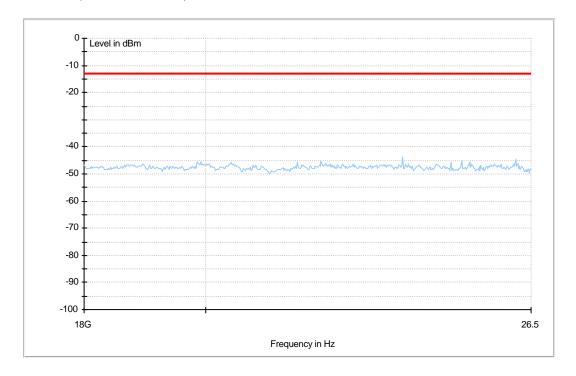


Traffic Mode (2GHz-18GHz)





Traffic Mode (18GHz-26.5GHz)



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