EMC Test Report

Product Name:
HSPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth

Model Number: HUAWEI U8220-6/U8220-6

Report No: SYBHZ(R)E009092009EB-1

Reliability Laboratory of Huawei Technologies Co., Ltd.

Huawei Base, Bantian, Longgang District, Shenzhen 518129, P.R. China

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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 obtained the accreditation of THE AMERICAN ASSOCIATION FOR LABORATORY ACCREDITATION (A2LA), and Accreditation Council Certificate Number: 2174.01.
3. 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.
4. The laboratory has been listed by industry Canada to perform electromagnetic emission measurement. The site recognition number is 6369A-1.
5. The laboratory also has been listed by the VCCI to perform EMC measurements. The accreditation number is R2364, C2583, and T256.
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7. 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.
8. The test report is invalid if there is any evidence of erasure and/or falsification.
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10. Normally, the test report is only responsible for the samples that have undergone the test.
11. Context of the test report cannot be used partially or in full for publicity and/or promotional purposes without previous written approval of the laboratory.

Notice 2

Modification Information:

Table 1 Modification Information

Modification Information	1	
	2	
	3	Not Applicable!
	4	
	5	
	6	
	7	

REPORT ON	**EMC TEST OF HSPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth** **M/N: HUAWEI U8220-6/U8220-6**
REGULATION	**FCC CFR47 Part 15: Subpart B;** **FCC CFR47 Part 22: Subpart H;** **FCC CFR47 Part 24: Subpart E;**
START OF TEST	**Aug.18, 2009**
END OF TEST	**Aug.28, 2009**
Final Judgement:	**Pass**

Approver	**2009-09-25**	张兴海	
	Date	**Name**	**Signature**
	2009-09-21	徐广义	
	Date	**Name**	**Signature**

REPORT BODY CONTENT

1 Status

1.1 Product Information

CLIENT:	Huawei Technologies Co., Ltd.
ADDRESS:	Bantian Longgang District Shenzhen, P.R. China
MANUFACTURING DESCRIPTION	HSPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth
MANUFACTURERS MODEL NUMBER	HUAWEI U8220-6/U8220-6

1.2 Applied Standard

FCC Measurement Specification	FCC Limits Part(s)	Description	Result
-	15.107	Conducted Emission at Power Port	PASS
-	15.109	Radiated Emission of Enclosure in Idle Mode	PASS
2.1051	22.917/24.238	Radiated Spurious Emission	PASS

1.3 Test Site

Site 1:
EMC LABORATORY OF RELIABILITY LABORATORY OF HUAWEI TECHNOLOGIES CO., LTD

1.4 Test environment condition

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

2 Summary of Results

Table 2 below shows a brief summary of the results obtained.

Table 2 Summary of results

EUT Classification：Wireless Terminal				
Test Items	**Test Configuration &Test Mode**	**Required Performance Criteria**	**Result**	**Site**
Radiated Emissions Enclosure Port	TC1/TC2 (TM11-TM20)	N/A	Pass	Site1
Conducted Emissions	TC1/TC2 (TM1-TM20)	N/A	Pass	Site1
Radiated Spurious Emissions Enclosure Port	TC1/TC2 (TM1-TM10)	N/A	Pass	Site1
Note: 1, Measurement taken is within the measurement uncertainty of measurement system. 2, TC = Test configuration 3, NT=no test. Because of not containing devices susceptible to magnetic fields, the EUT has been exempt from immunity test of power frequency magnetic field.				

3 Equipment Specification

3.1 General Description

HUAWEI HSPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth-HUAWEI U8220-6/U8220-6 is subscriber equipment in the WCDMA/GSM system. The HSPA/UMTS frequency band is Band I and Band II and Band V, but only Band II and Band V bands test data included in this report. The GSM/GPRS/EDGE frequency band includes 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, HSPA/UMTS 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:	HSPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth
Models:	HUAWEI U8220-6/U8220-6
Input Rated Voltage	3.7V
Extreme Voltage	3.6V and 4.2V
Rated Power	Normal 3W ,Max 8 W
Dimensions	116mm (L)X62.8mm (W)X13.9mm (H)
Weight	<140g(with battery)

Table 3 Sub-Assembly Identity

Mode		Work Frequency	
		Transmitt Frequency （MHz）	Receive Frequency （MHz）
GSM	GSM850	824 - 849	869 - 894
	PCS1900	1850-1910	1930-1990
WCDMA	WCDMA850	824 - 849	869 - 894
	WCDMA1900	1850-1910	1930-1990

3.2 Sub-Assembly Identity

Table 4 Sub-Assembly Identity

Board				
Model Name	Qty.	Hardware Version	Serial	Description
HD1U822M	1	VER.D	MT2AC10972800321	Main board of Mobile Phone
Accessory				
Name	Qty.	Manufacture	Serials number	Description
Adapter	1	Huawei Technologies Co., Ltd.	XQH8C2201800	Adapter Model: HS-050040E5 voltage nominal: ~120V Input Voltage : ~100-240V 50/60Hz 0.2A Output Voltage: ⎓ 5.0V 400 mA Rated Power: 2W
Adapter	1	Huawei Technologies Co., Ltd.	XQH951105394	Adapter Model: HS-050040B6 voltage nominal: ~120V Input Voltage : 100-240V ~50/60Hz 0.2A Output Voltage:

				⎓ 5.0V 400 mA Rated Power: 2W
Adapter	1	Huawei Technologies Co., Ltd.	HKA940118691	Adapter Model: HS-050040U6 voltage nominal: ~120V Input Voltage : 100-240V ~50/60Hz 0.2A Output Voltage: ⎓ 5.0V 400 mA
Rechargeable Li-ion	1	Huawei Technologies Co., Ltd.	SAC9212HI0338797	Battery Model: HB4F1 Rated capacity: 1500mAh Nominal Voltage: ⎓ +3.7V Charging Voltage: ⎓ +4.2V

4 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

Table 5 Cable Used during Test

Port	Length	Quantity	Type of Cable
AC Power Port	3m	1	Unshielded
USB	0.85m	1	shielded
Earphone	1.25m	1	Unshielded

4.2 Associated Equipment Used during Test

Table 6 Associated Equipment Used during Test

Name	Model	Manufacturer	S/N	Cal Date
Radio Communication Tester	CMU200	R&S	249421	2008-9-9

4.3 Test Configurations and Test Mode

4.3.1 Test Configuration.

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.

Table 7 Configuration table

TC1/TC2	TM1~TM20

4.3.2 Test Mode

There were sixteen test Modes. TM1 to TM20 were shown in the diagrams below:
TM1: operate in idle GSM850;
TM2: operate in idle EDGE850;
TM3: operate in idle GSM1900;
TM4: operate in idle EDGE1900;
TM5: operate in idle WCDMA Band 850;
TM6: operate in idle HSDPA Band 850;
TM7: operate in idle HSUPA Band 850;
TM8: operate in idle WCDMA Band 1900;
TM9: operate in idle HSDPA Band 1900;
TM10: operate in idle HSUPA Band 1900;
TM11: operate in traffic GSM850;
TM12: operate in traffic GSM1900;
TM13: operate in traffic EDGE850;
TM14: operate in traffic EDGE1900;
TM15: operate in traffic WCDMA Band 850;
TM16: operate in traffic HSDPA Band 850;

TM17: operate in traffic HSUPA Band 850;
TM18: operate in traffic WCDMA Band 1900;
TM19: operate in traffic HSDPA Band 1900;
TM20: operate in traffic HSUPA Band 1900;

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 EGSM and DCS, 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. Here, set the ARFCN channel number to 661 for PCS1900, to190 for GSM850, to 9400 for WCDMA Band II and to 4183 for WCDMA Band 850.

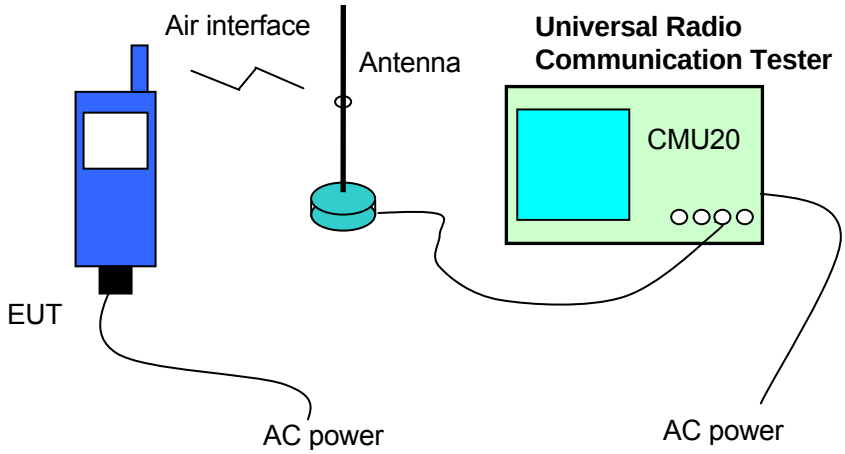
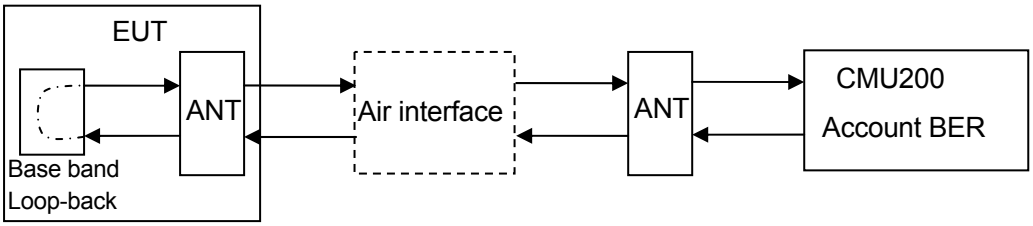


Figure 1.: Test Configuration

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.



ANT: Antenna
BER: Bit Error Rate

Figure 2. Test Configuration

5 Electromagnetic Interference (EMI)

5.1 Radiated Disturbance 30MHz to 1000MHz

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 (2003). The test distance was 3m.The EUT was set-up on insulator 80cm above the Ground Plane. The set-up and test methods were according to ANSI C63.4.The Radiated Disturbance measurements were made using a Rohde and Schwarz ESMI Test Receiver and control software ES-K1.

A preliminary scan and a final scan of the emissions were made from 30 MHz to 18GHz by using test script of software; the emissions were measured using a Quasi-Peak Detector. 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.

Huawei Mobile Station was communicated with the BTS simulator through Air interface. The Mobile Station operated on the typical channel and the Mobile Station worked in idle mode, transmitter was not work in this test.

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:

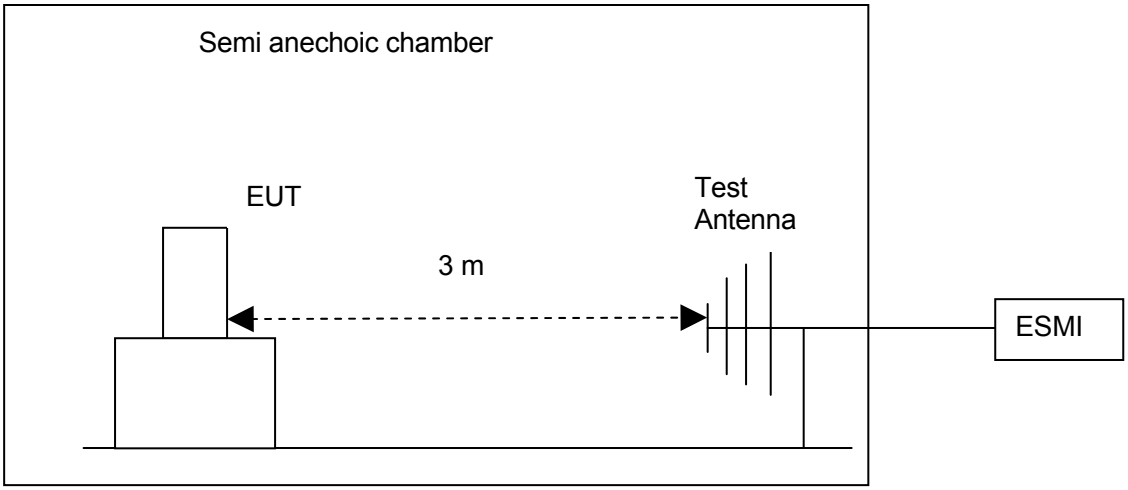


Figure 3. Test set-up

5.1.2 Test Results

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

Table 8 Test Limits

Frequency of Emission (MHz)	Radiated Limit	
	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: 2003.

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.

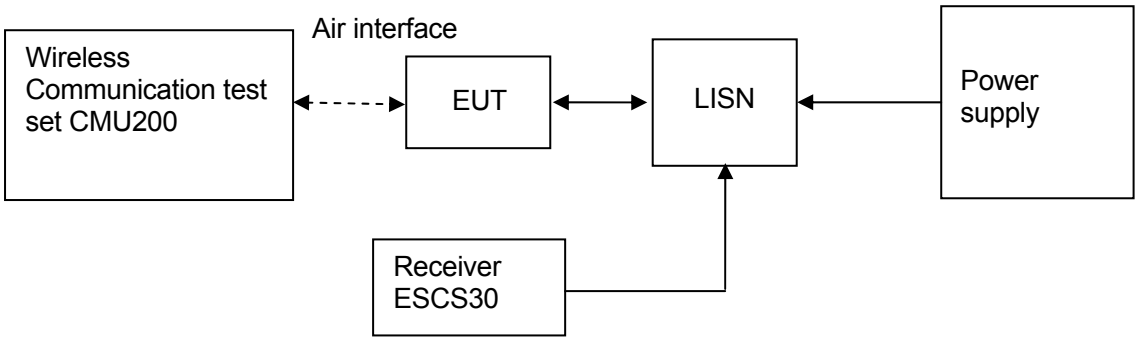


Figure 4. Test Set-up

5.2.2 Test Results

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

Table 9 Test Limit of DC&AC Power Port

Frequency range	150kHz~ 30MHz	
Classification	Class B	
Limit(Class B)	Voltage limits	
	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

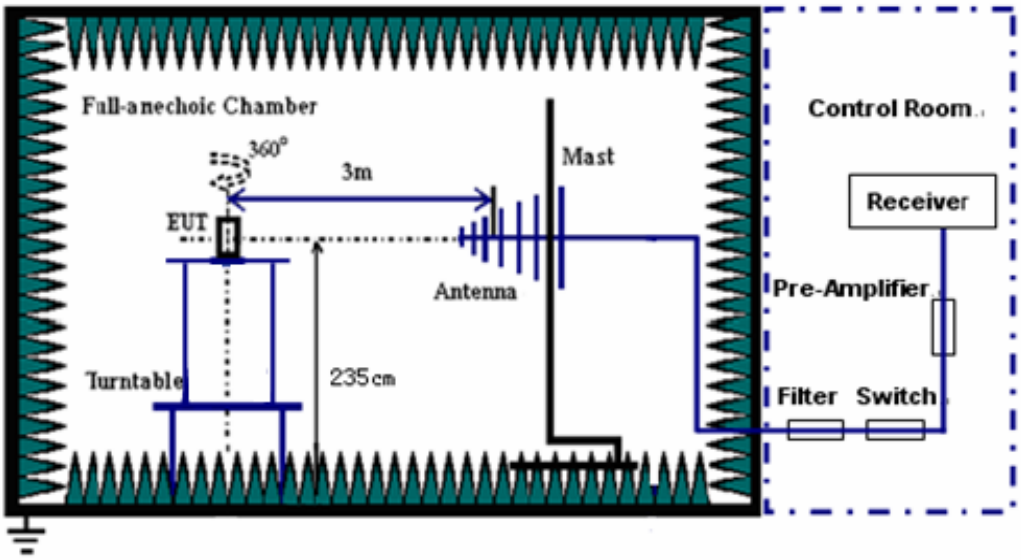
5.3.1 Test Procedure

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

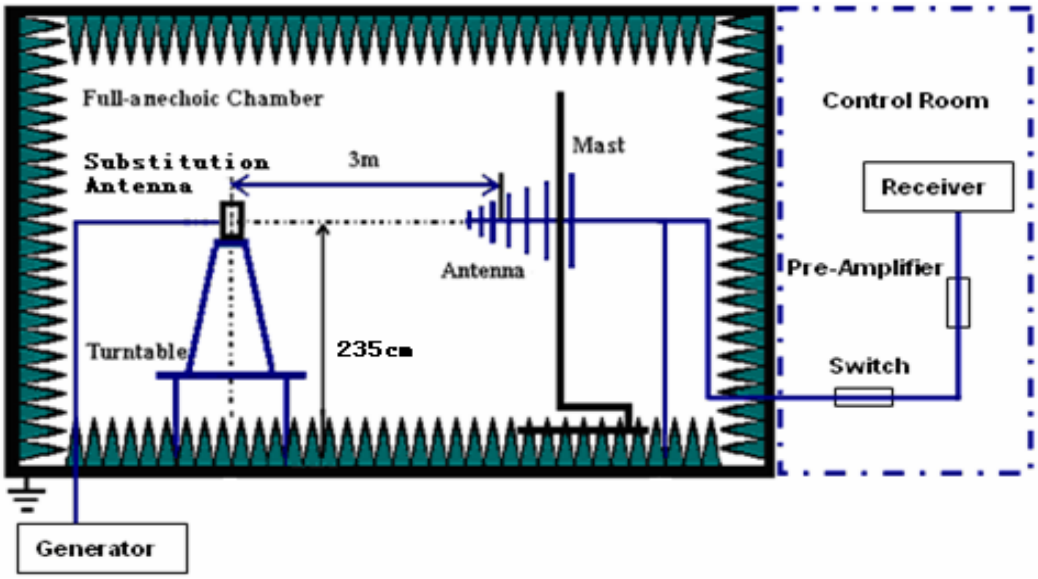
an RF filter to avoid radiation from the power leads.

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 Rohde and Schwarz ESIB26 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 ESIB26 Test Receiver, and record the power level of Signal Generator. Of course, the cable loss at the test frequency should be compensated.



According to part 22.917, the defined measurement bandwidth as following:

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

Table 10 Radiated Spurious Emissions Limits

Frequency band	Minimum requirement (E.R.P) traffic mode
30MHz~18GHz	-13dBm

According to part 24.238, the defined measurement bandwidth as following:

24.238 (b) Measurement procedure: Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz 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 30 MHz up to 26.5 GHz: 1 MHz;

Table 11 Radiated Spurious Emissions Limits

Frequency band	Minimum requirement (E.R.P) traffic mode
30MHz~26.5GHz	-13dBm

According to part 27.53(g), the defined measurement bandwidth as following:

27.53 (g) Measurement procedure: Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz 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 30 MHz up to 26.5 GHz: 1 MHz;

Table 12 Radiated Spurious Emissions Limits

Frequency band	Minimum requirement (E.R.P) traffic mode
30MHz~26.5GHz	-13dBm

5.3.2 Test Results

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

6 Main Test Instruments

Table 13 Main Test Equipments

Test item	Test Instrument	Model	Manufacturer	Cal-Date	Cal Interval (month)
RE	EMI Test receiver	ESMI	R&S	Apr.23, 2009	12
	Broadband Antenna	CBL 6112B (2536)	SCHAFFNER	Jun.08, 2009	12
CE	EMI Test receiver	ESCS30	R&S	Apr.22, 2009	12
	Artificial Mains Network	ENV4200	R&S	May.12, 2009	12
RSE	EMI Test receiver	ESIB26	R&S	May.30, 2009	12
	Horn Antenna	3117	ETS-LINDGREN	Jul.16, 2009	12
	Broadband Antenna	CBL6112B (2747)	SCHAFFNER	Oct.17,2008	12
	Horn Antenna	3160	ETS-LINDGREN	Sep.27.2008	12

Software Information			
Test Item	Software Name	Manufacturer	Version
RE/CE	ES-K1	R&S	1.7.1
RSE	EMC32	R&S	V5.10.99

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:

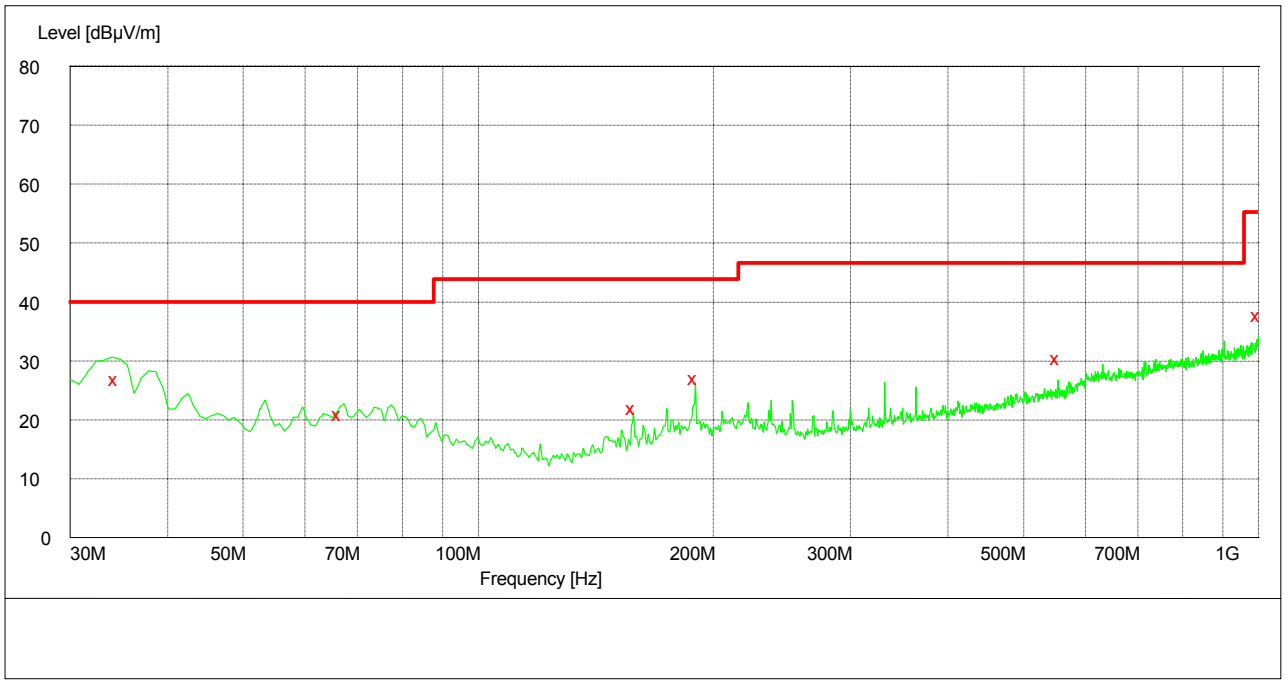
Table 14 System Measurement Uncertainty

Items		Extended Uncertainty
RE	Field strength (dBμV/m)	U=4.6dB; k=2(30MHz-1GHz)
RSE	ERP (dBm)	U=2.2dB；k=2
CE	Disturbance Voltage(dBμV)	U=3.3dB; k=2

8 Graph and Data of Emission Test

8.1 Radiated Disturbance

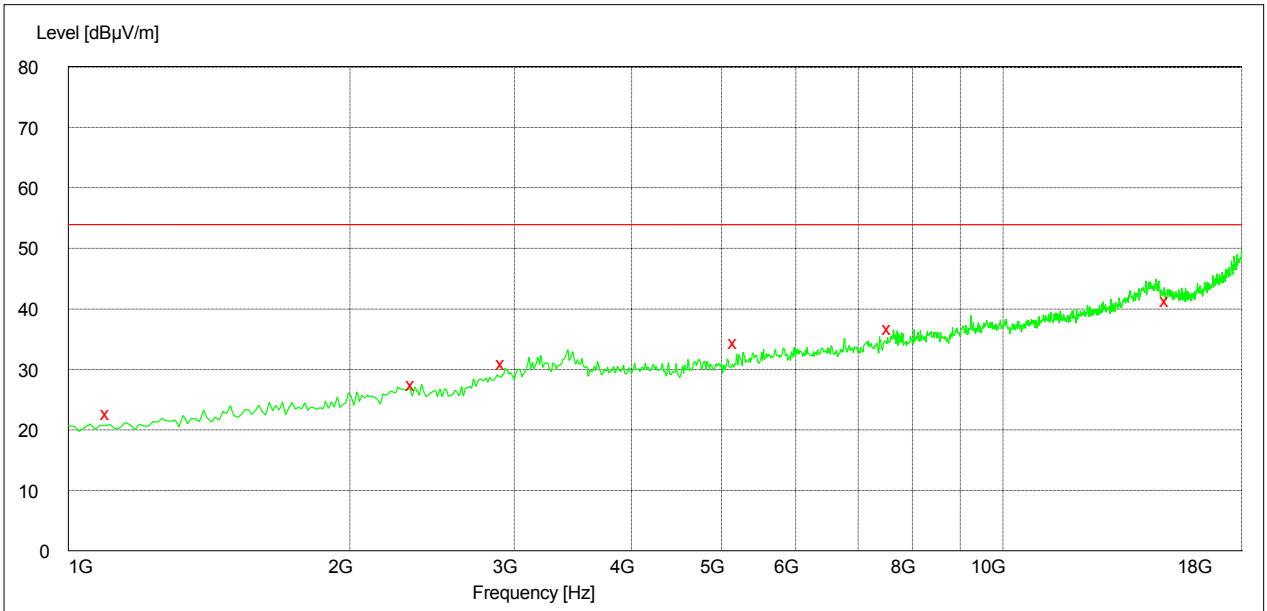
This test was carried out in all the test modes, Here only the worst test result was shown.



MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
34.380000	27.00	11.7	40.0	13	100.0	240.00	VERTICAL
66.420000	21.10	9.8	40.0	18.9	299.0	280.00	VERTICAL
157.980000	22.10	9.5	43.5	21.4	100.0	177.00	HORIZONTAL
189.600000	27.30	11.8	43.5	16.2	100.0	29.00	HORIZONTAL
552.900000	30.50	20.9	46.0	15.5	100.0	164.00	HORIZONTAL
999.540000	37.90	28.1	54.0	16.1	139.0	221.00	HORIZONTAL

1GHz-18GHz



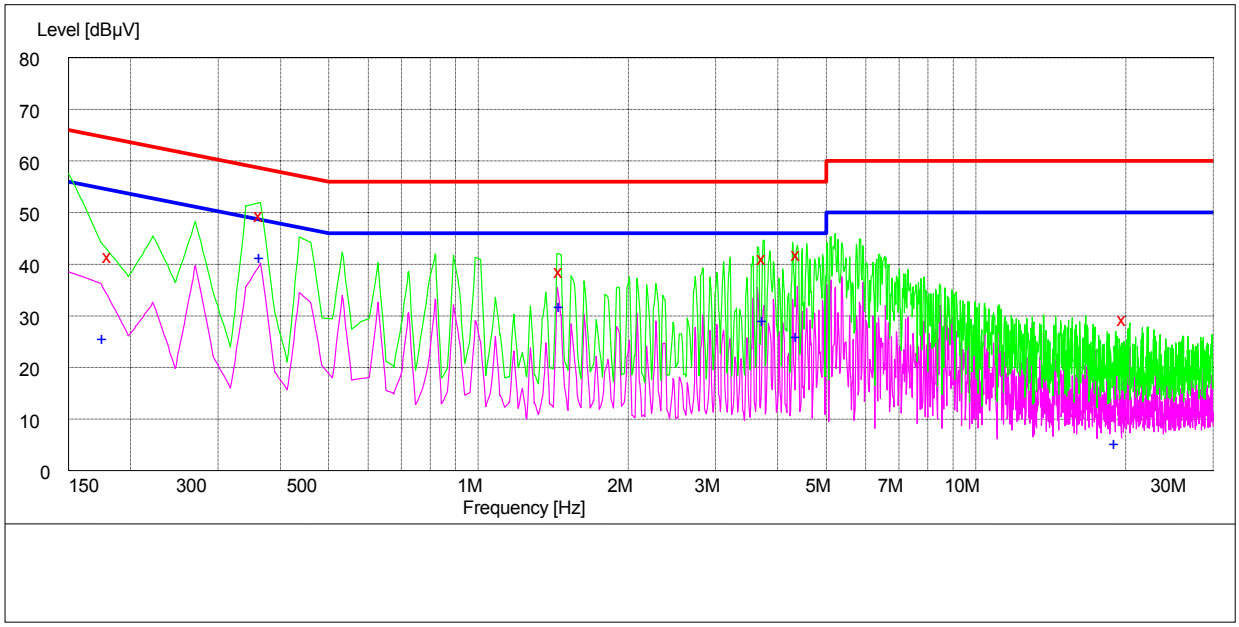
MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
1108.500000	21.90	-15.9	54.0	32.1	129.0	90.00	HORIZONTAL
2379.000000	28.80	-10.0	54.0	25.2	150.0	273.00	HORIZONTAL
2909.500000	30.50	-7.6	54.0	23.5	148.0	13.00	HORIZONTAL
5061.500000	33.00	-1.4	54.0	21	148.0	170.00	HORIZONTAL
7510.000000	37.40	4.1	54.0	16.6	139.0	224.00	VERTICAL
15995.500000	40.20	17.3	54.0	13.8	100.0	110.00	HORIZONTAL

9 Conducted Disturbance

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

9.1.1 AC Power Port Test Data



MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.181500	41.90	10.1	64	22.1	N	FLO
0.366000	49.80	10.0	59	8.2	N	FLO
1.468500	39.00	10.1	56	17.0	N	FLO
3.754500	41.60	10.2	56	14.4	N	FLO
4.398000	42.30	10.2	56	13.7	N	FLO
20.008500	31.90	10.3	60	28.1	L3	FLO

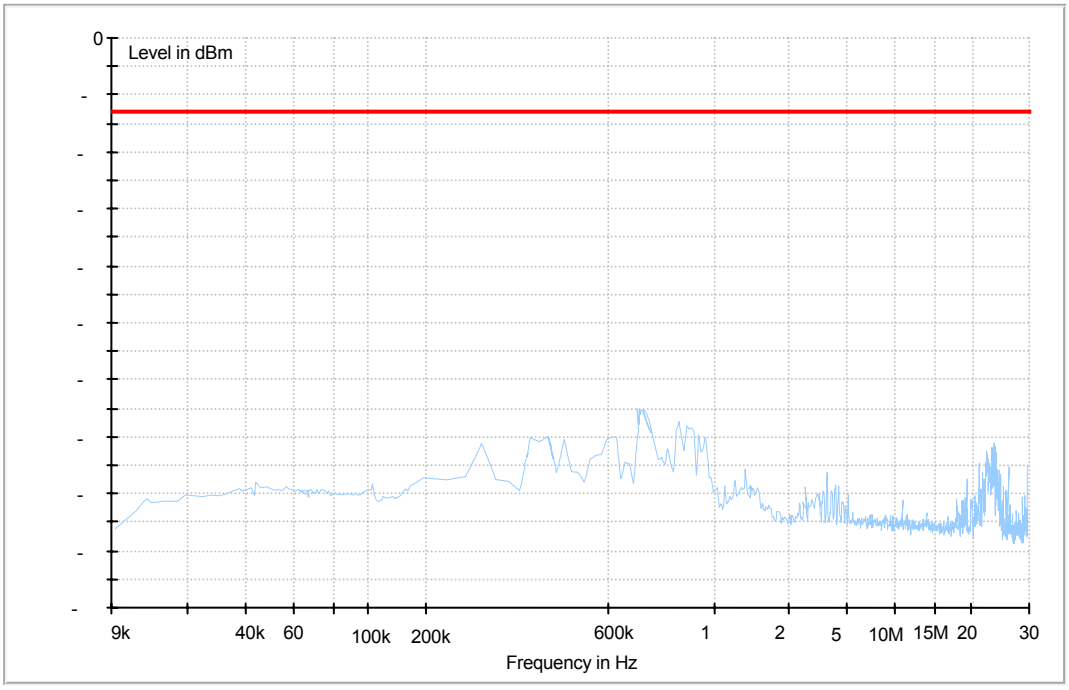
MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.177000	25.90	10.1	55	28.7	N	FLO
0.366000	41.60	10.0	49	7.0	N	FLO
1.464000	32.10	10.1	46	13.9	N	FLO
3.750000	29.30	10.2	46	16.7	N	FLO
4.389000	26.30	10.2	46	19.7	N	FLO
19.131000	5.40	10.3	50	44.6	N	FLO

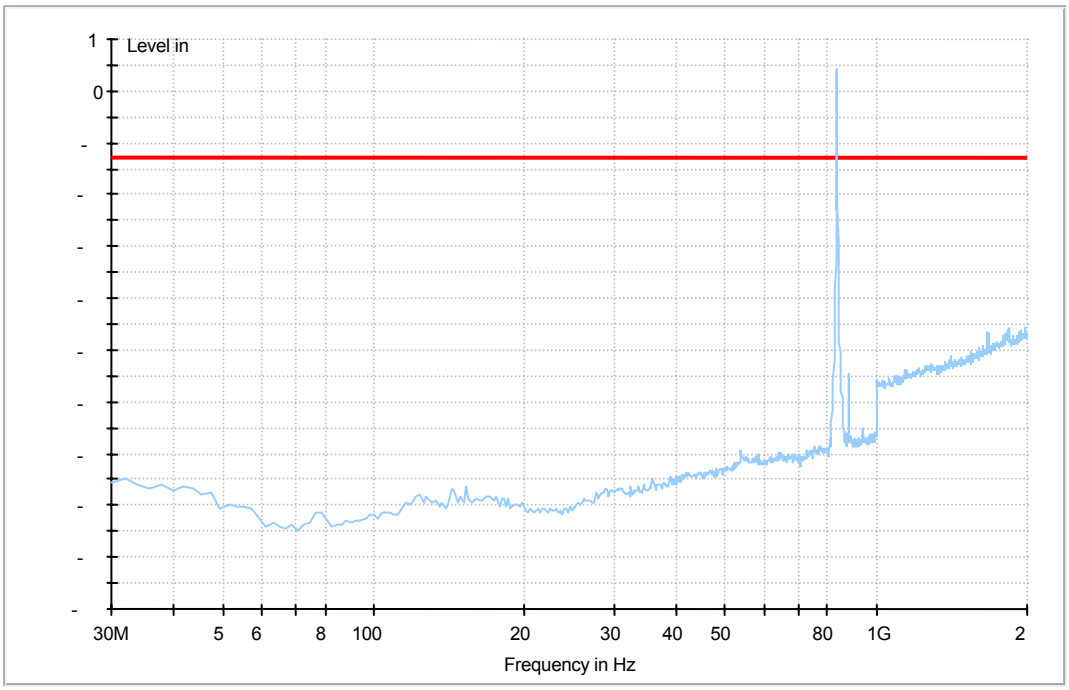
9.2 Radiated Spurious Emission

9.2.1 For GSM 850

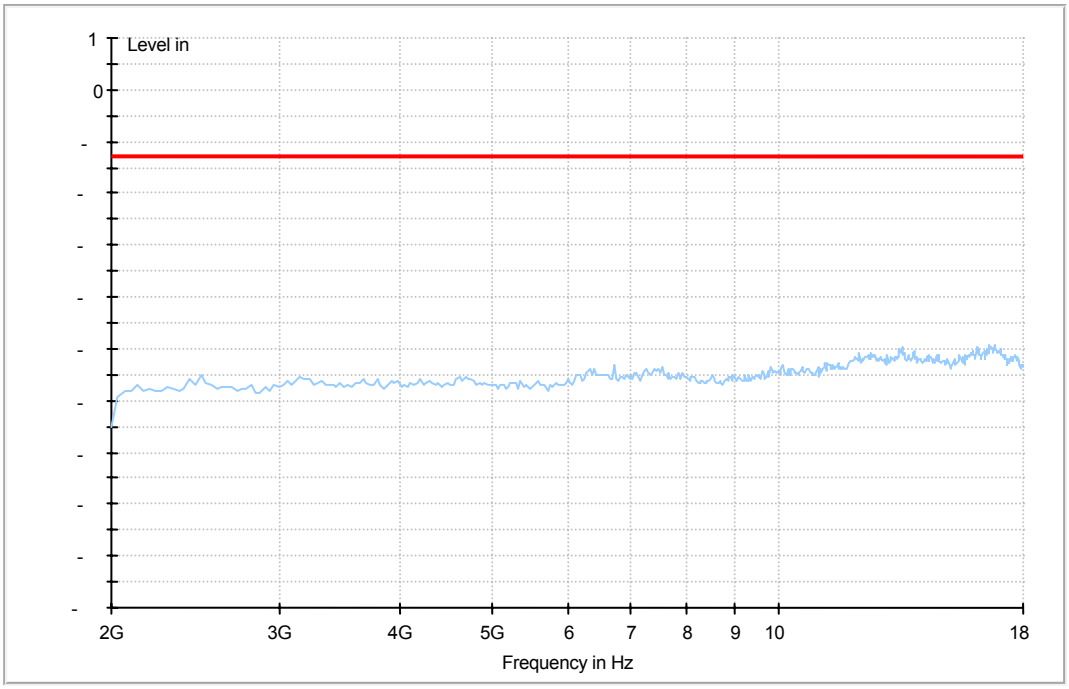
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-2GHz)

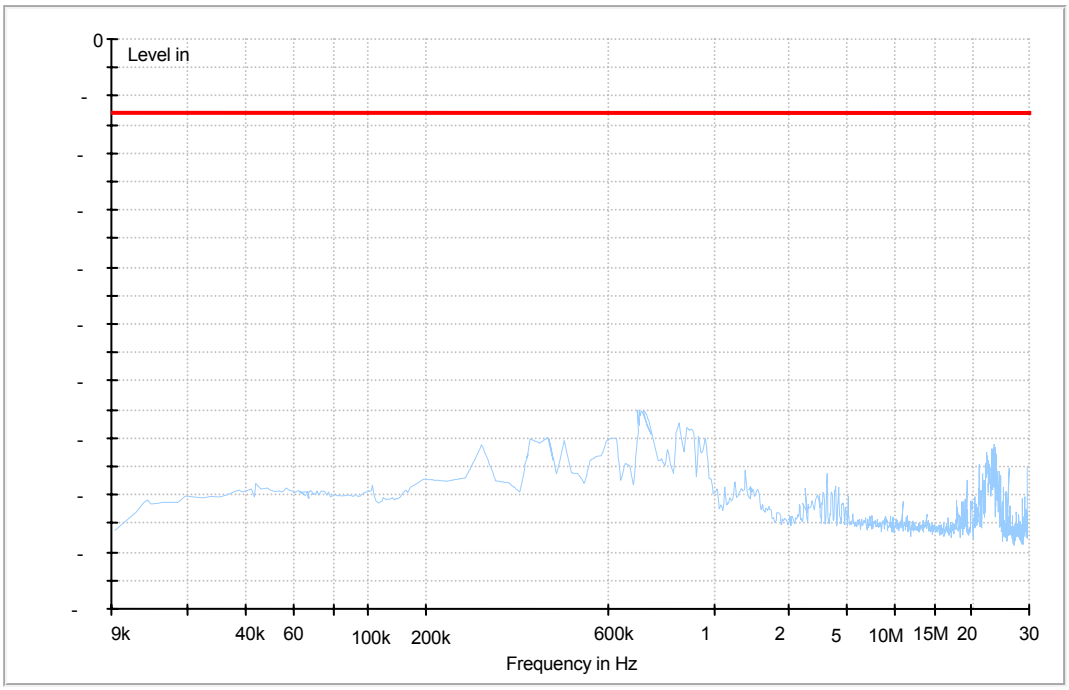


Traffic Mode (2GHz-18GHz)

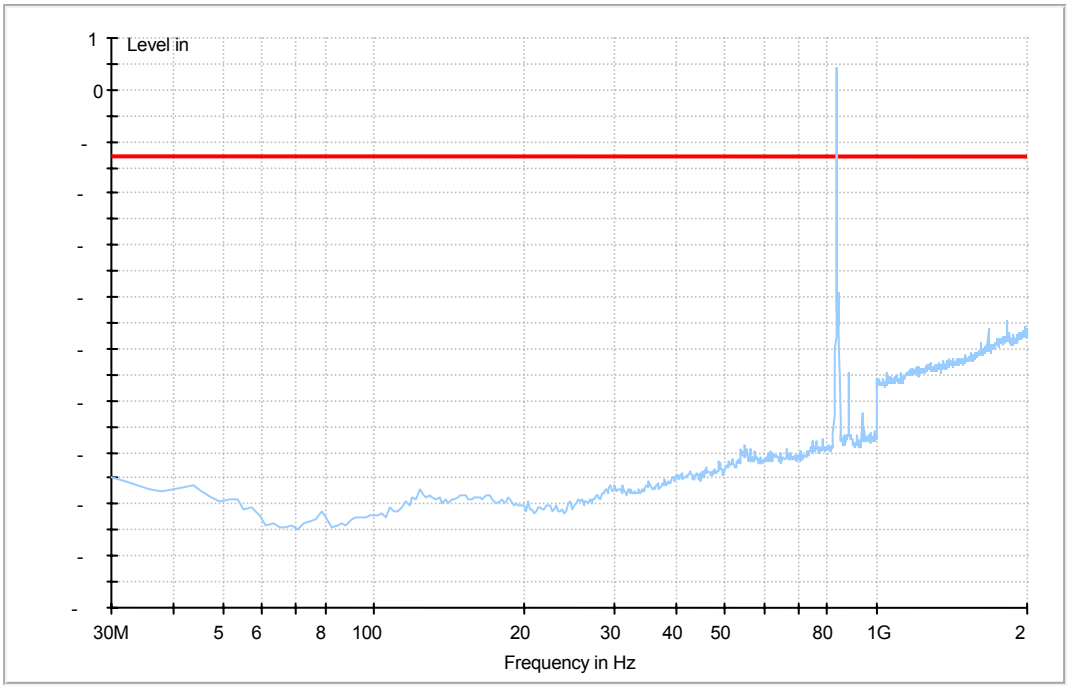


9.2.2 For EGPRS 850

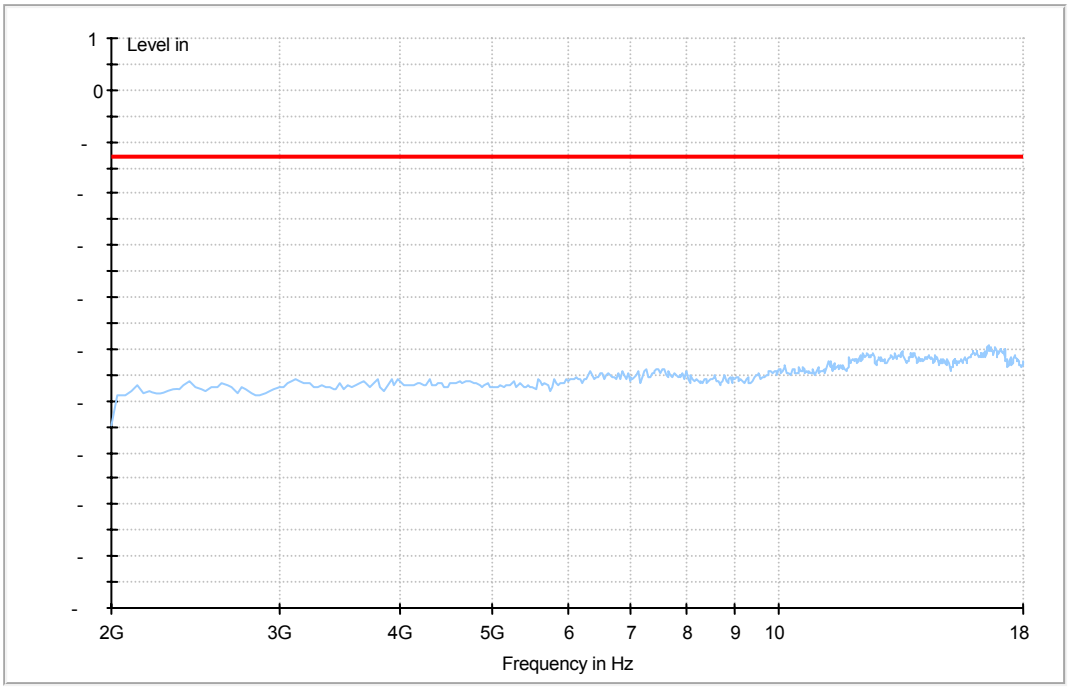
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-2GHz)

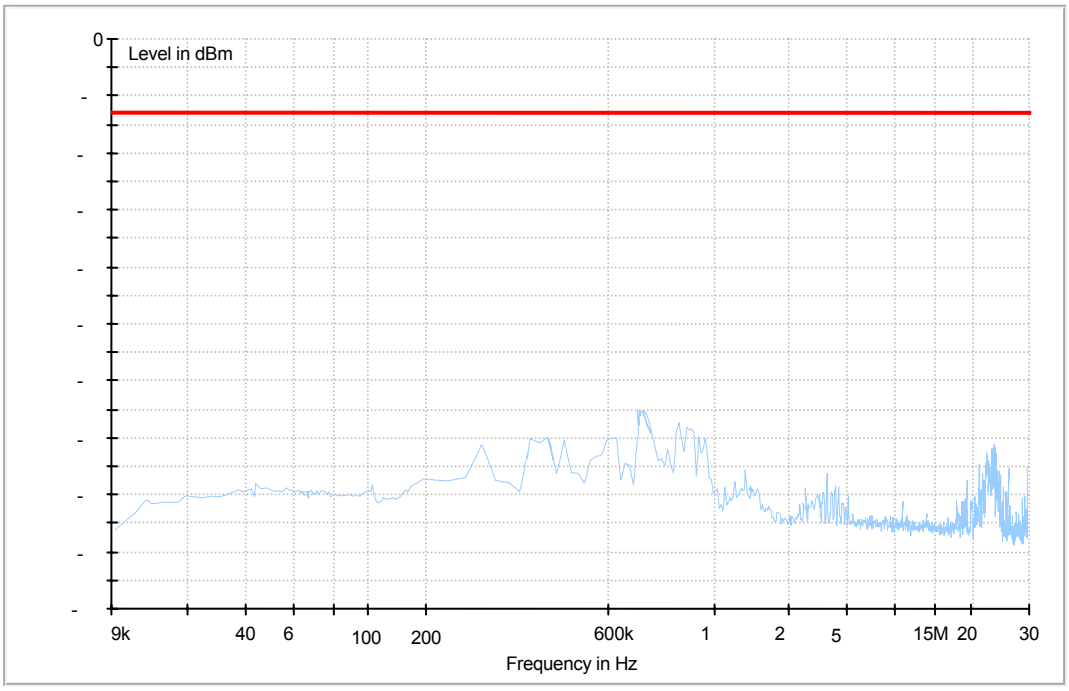


Traffic Mode (2GHz-18GHz)

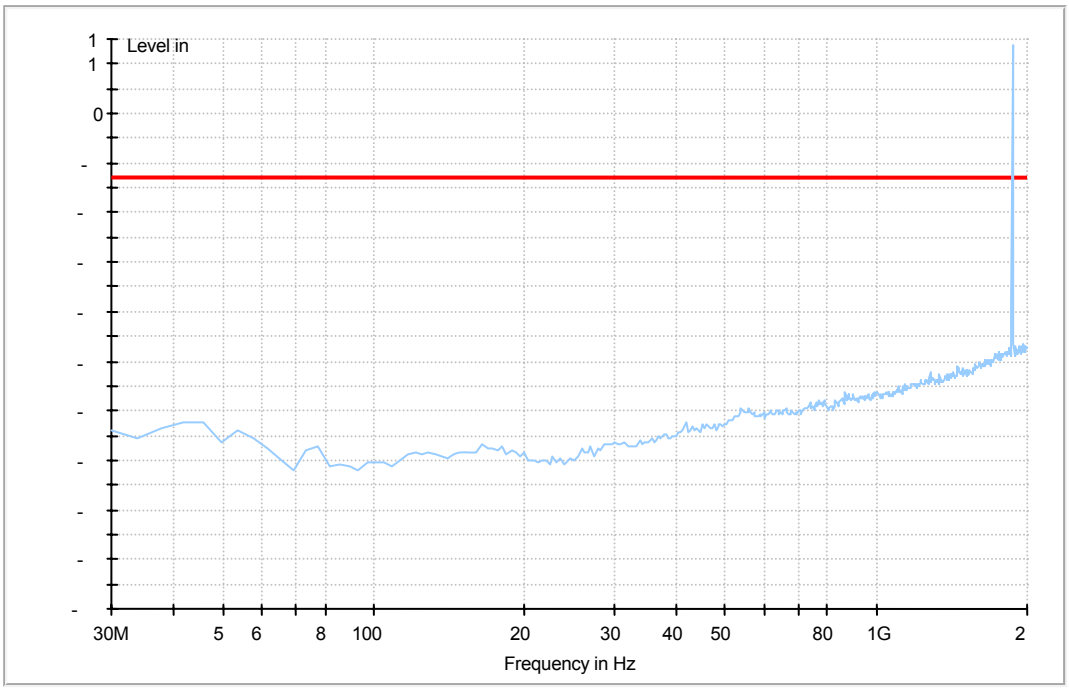


9.2.3 For GSM 1900

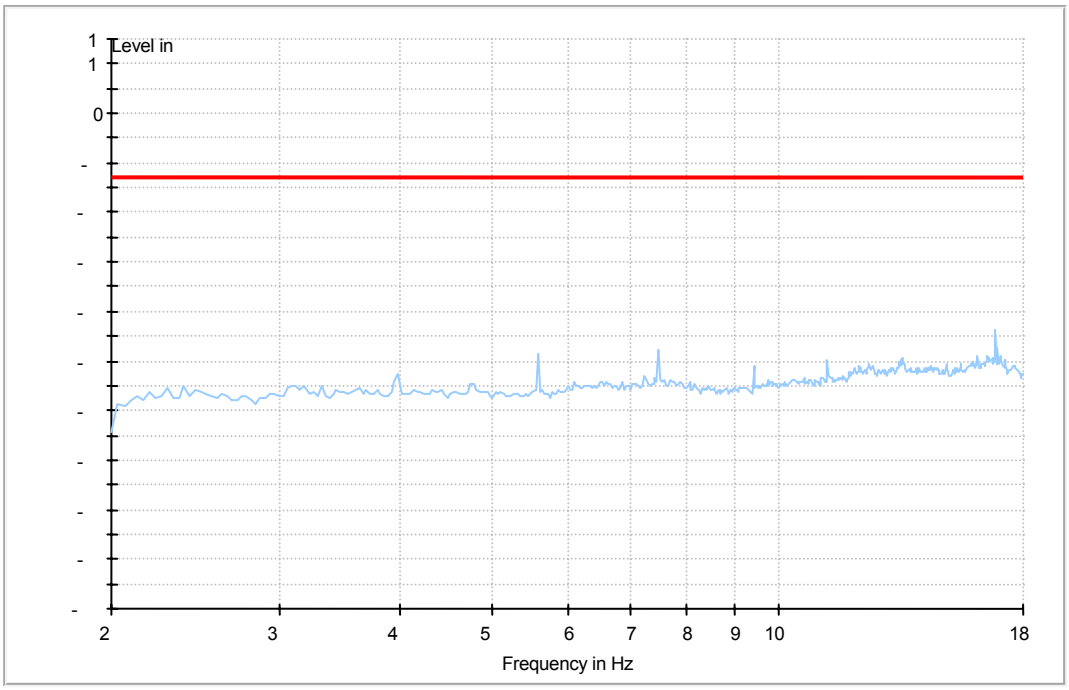
Traffic Mode (9kHz-30MHz)



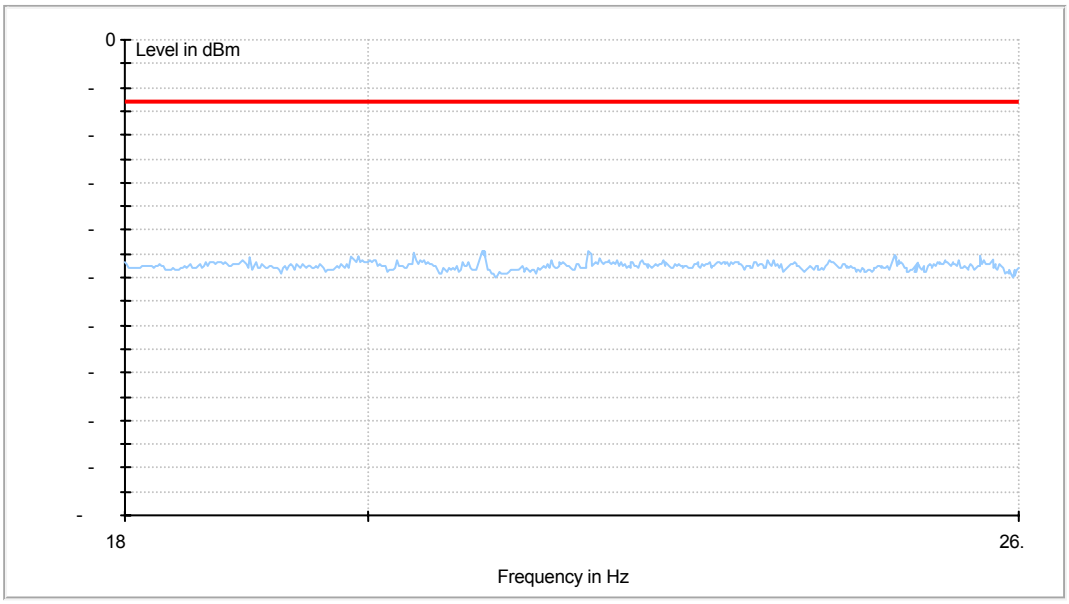
Traffic Mode (30MHz-2GHz)



Traffic Mode (2GHz-18GHz)

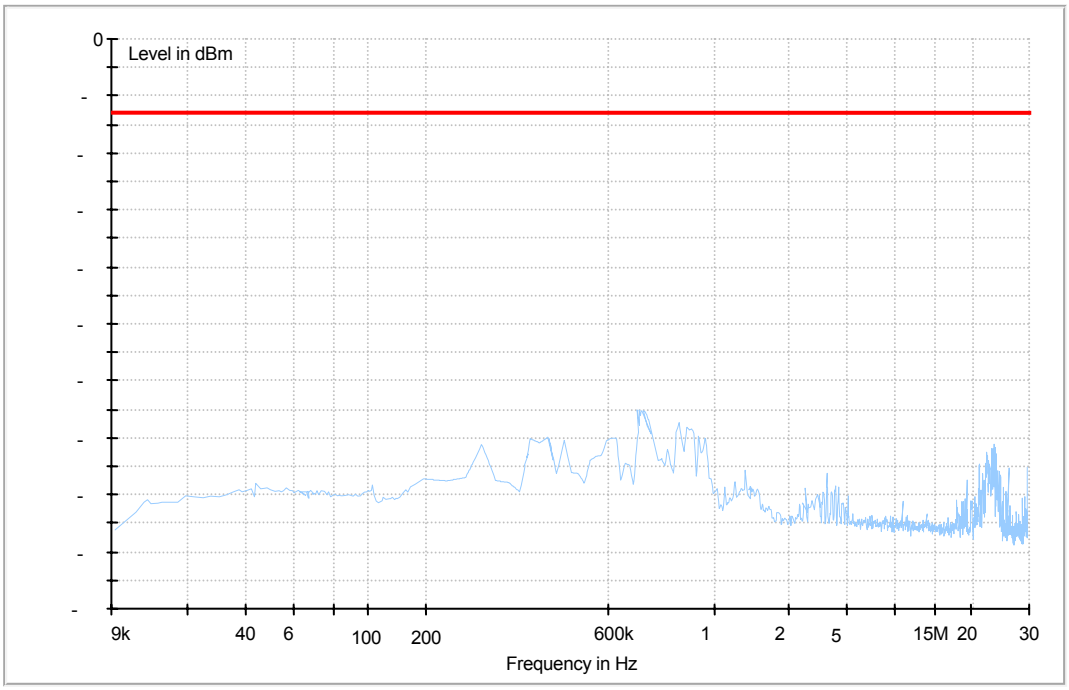


Traffic Mode (18GHz-26.5GHz)

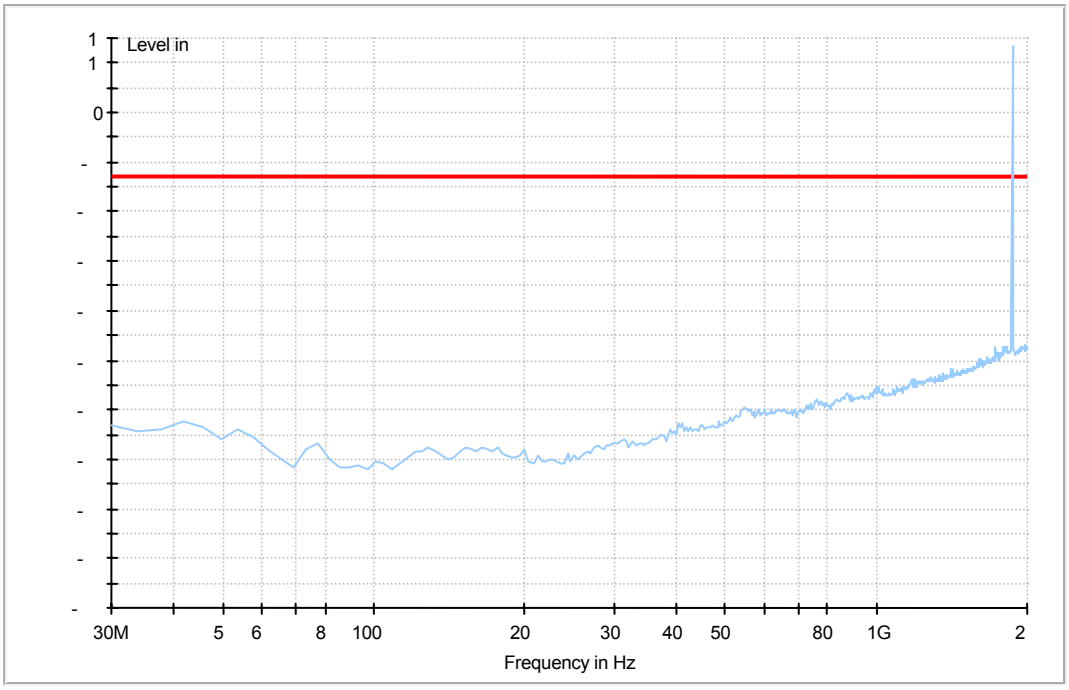


9.2.4 For EGPRS 1900

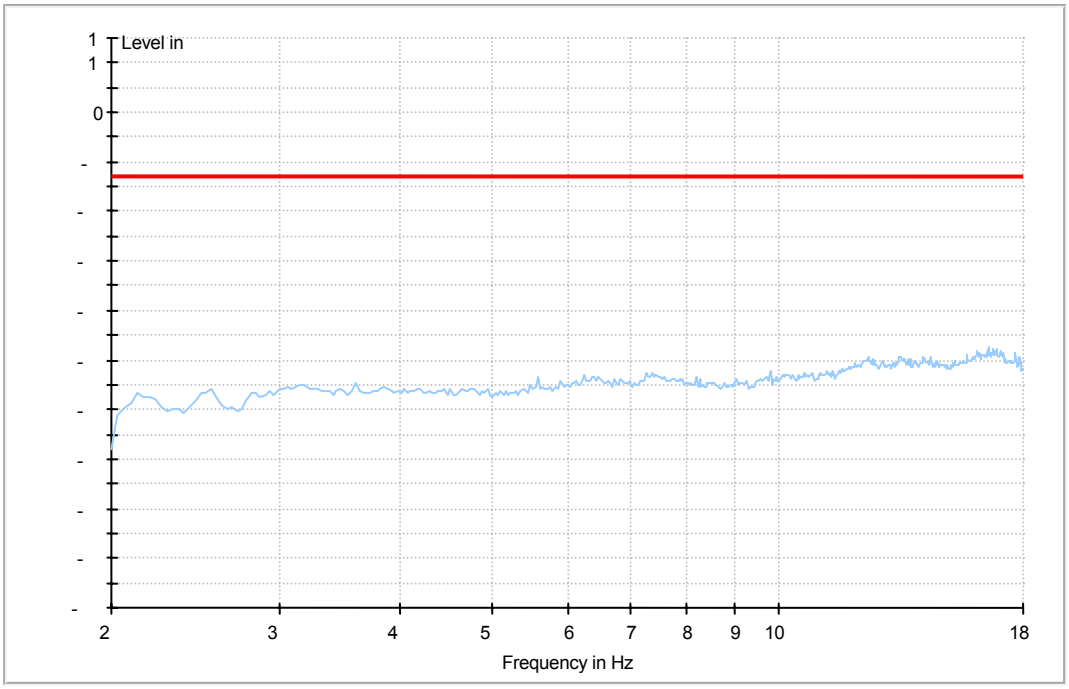
Traffic Mode (9kHz-30MHz)



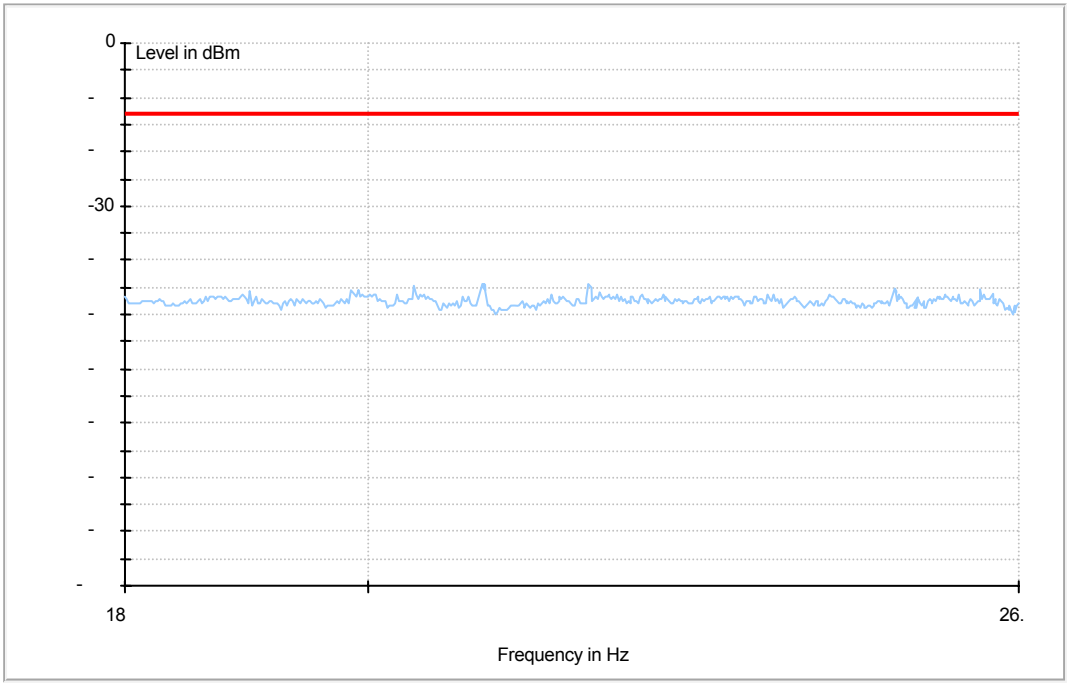
Traffic Mode (30MHz-2GHz)



Traffic Mode (2GHz-18GHz)

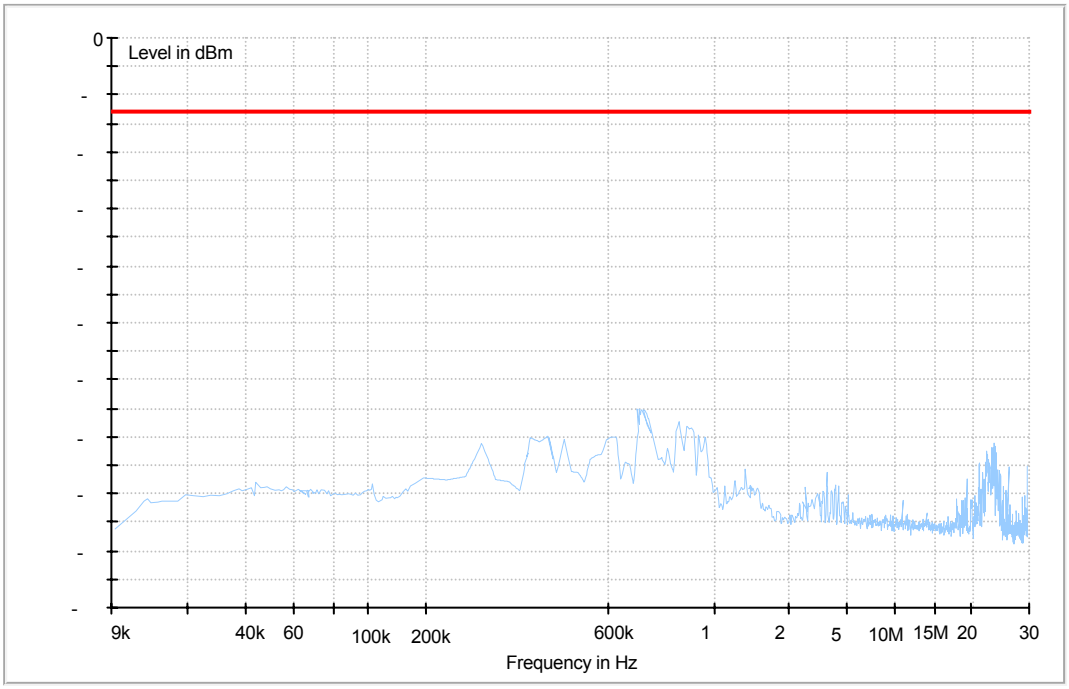


Traffic Mode (18GHz-26.5GHz)

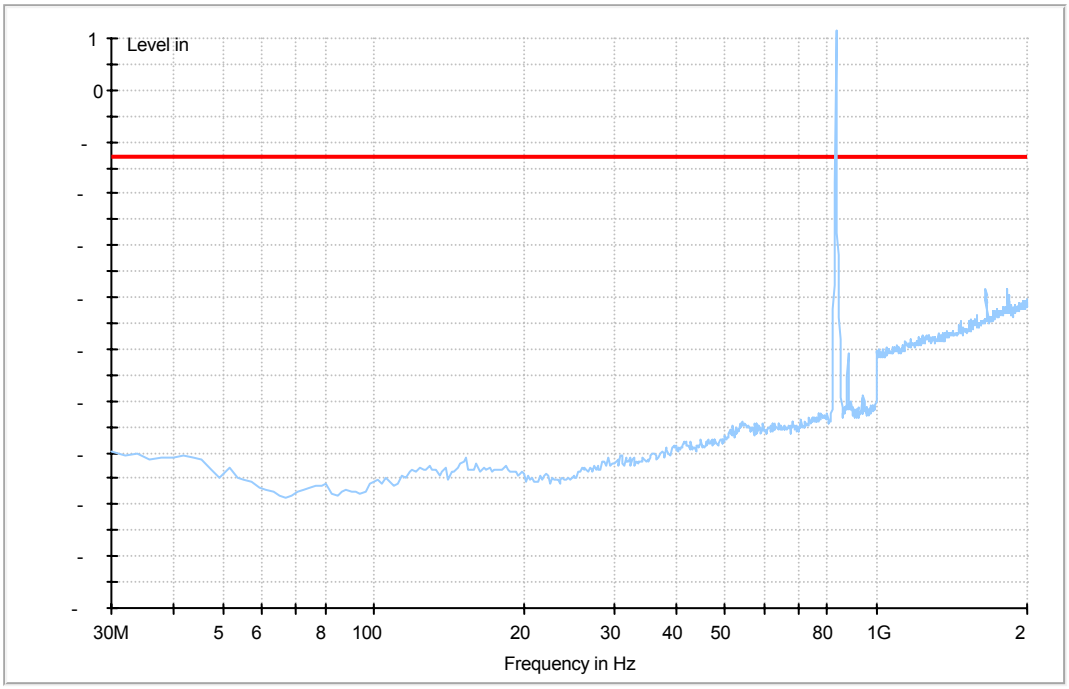


9.2.5 For WCDMA 850

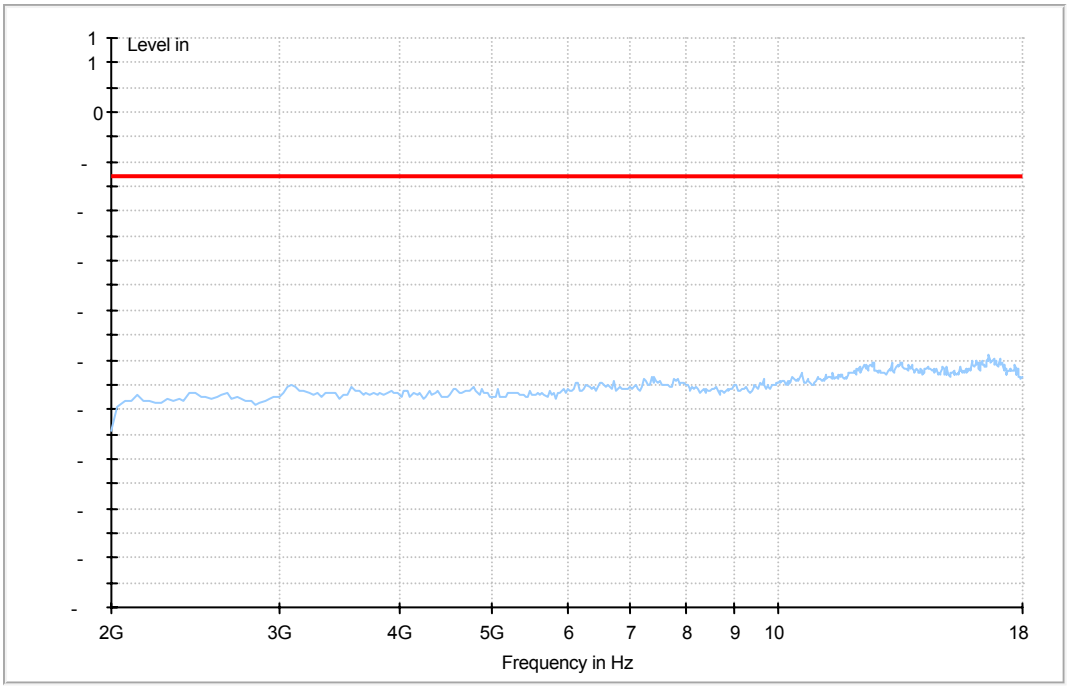
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-2GHz)

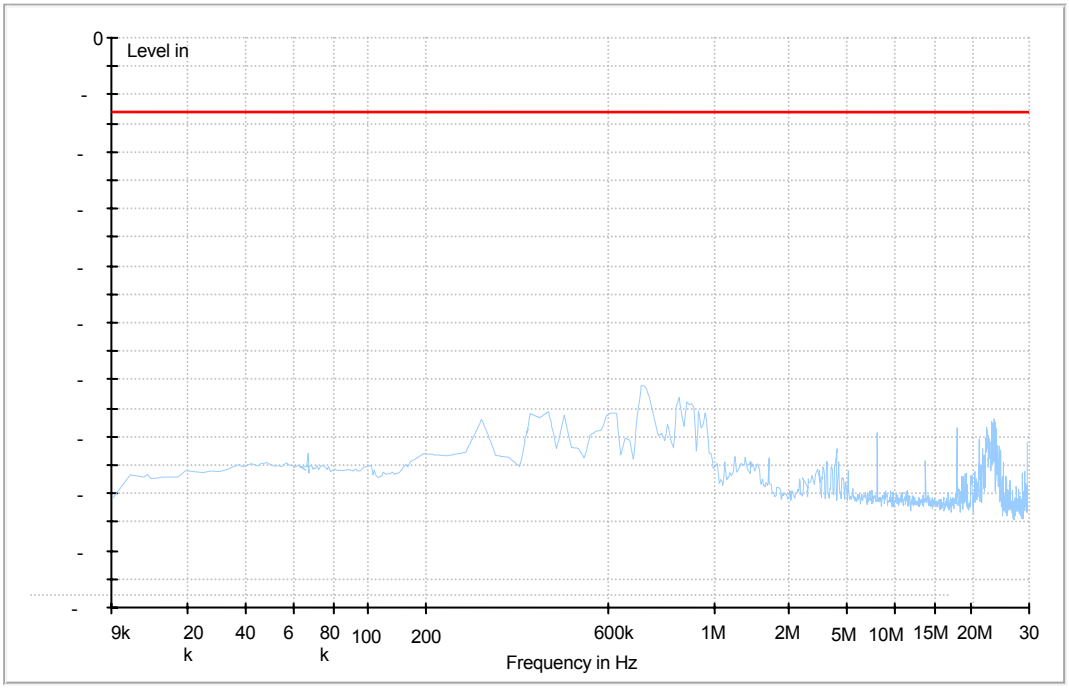


Traffic Mode (2GHz-18GHz)

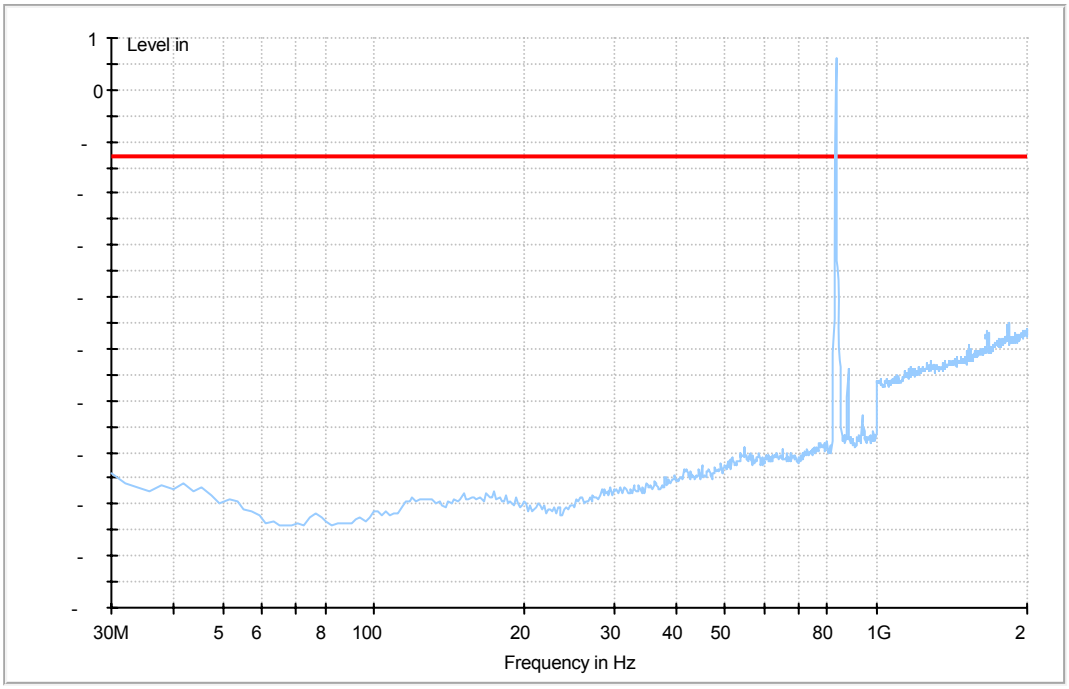


9.2.6 For HSDPA 850

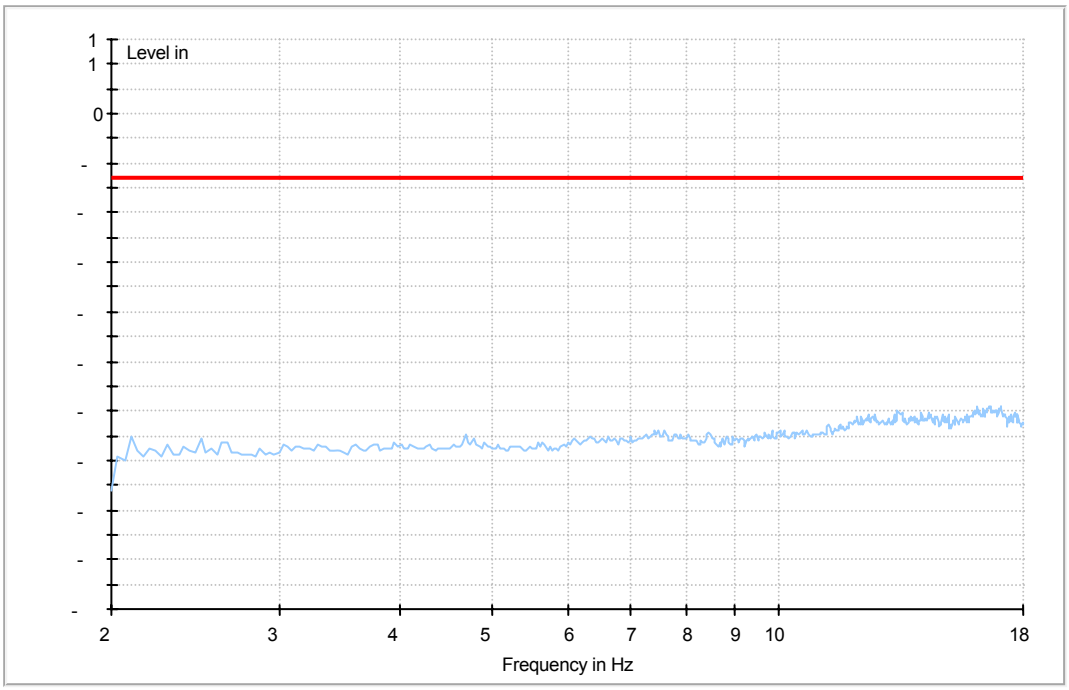
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-2GHz)

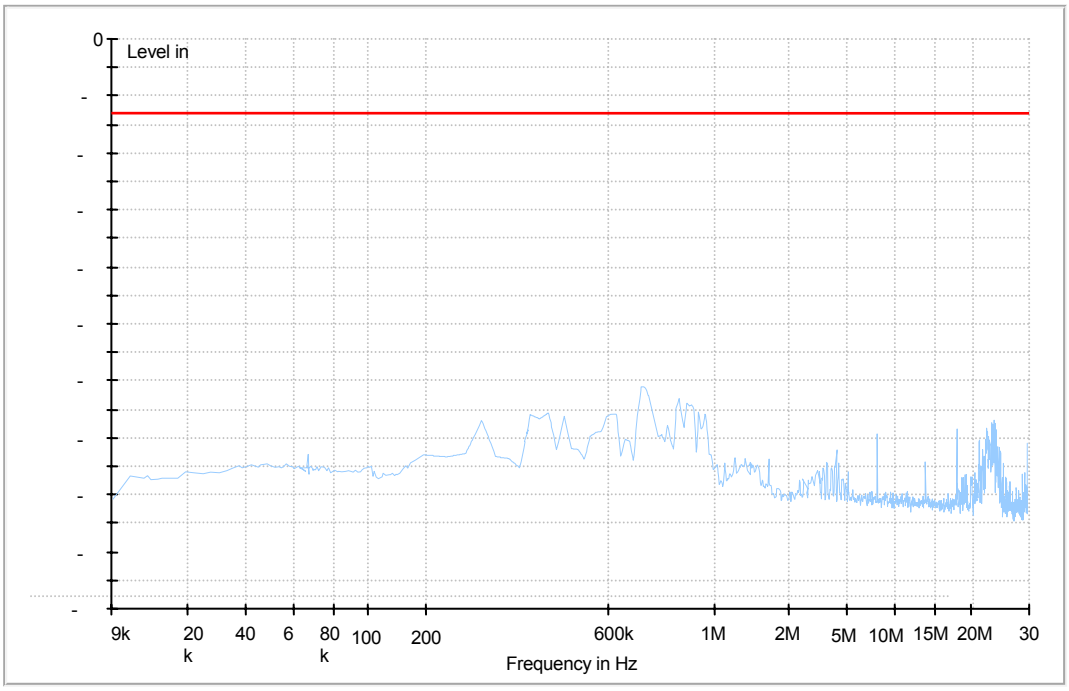


Traffic Mode (2GHz-18GHz)

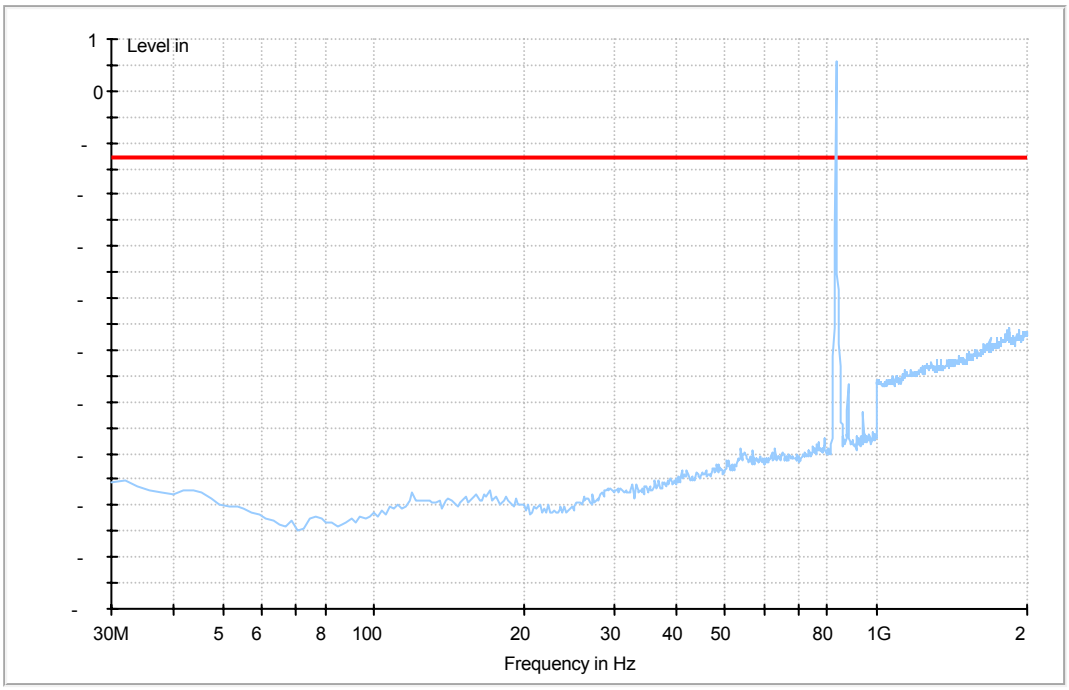


9.2.7 For HSUPA 850

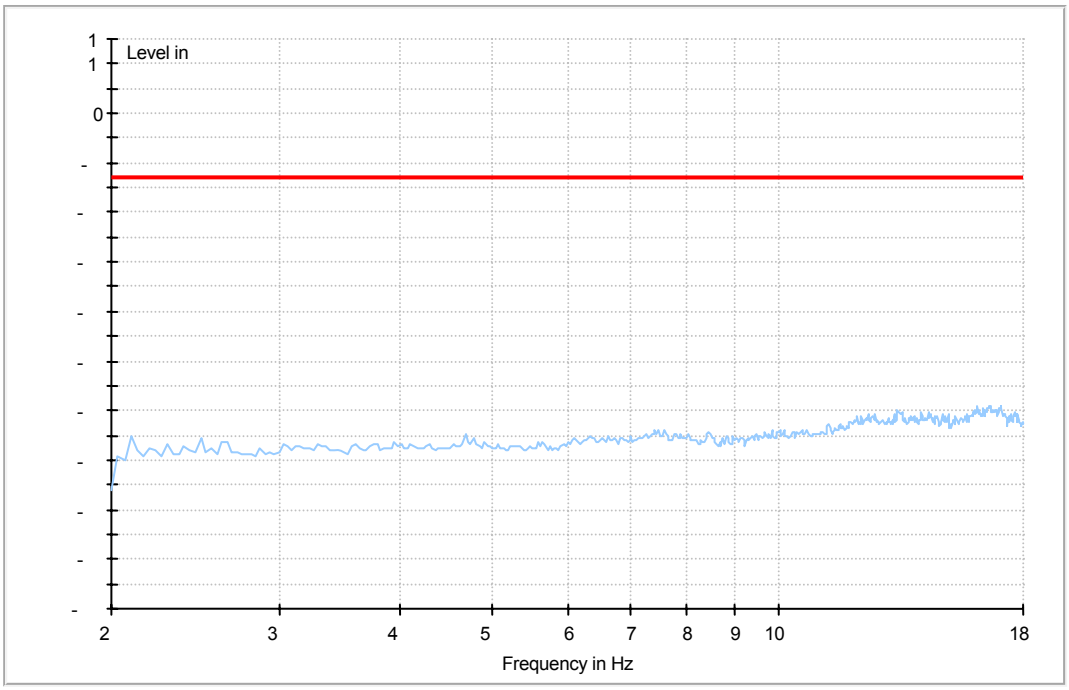
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-2GHz)

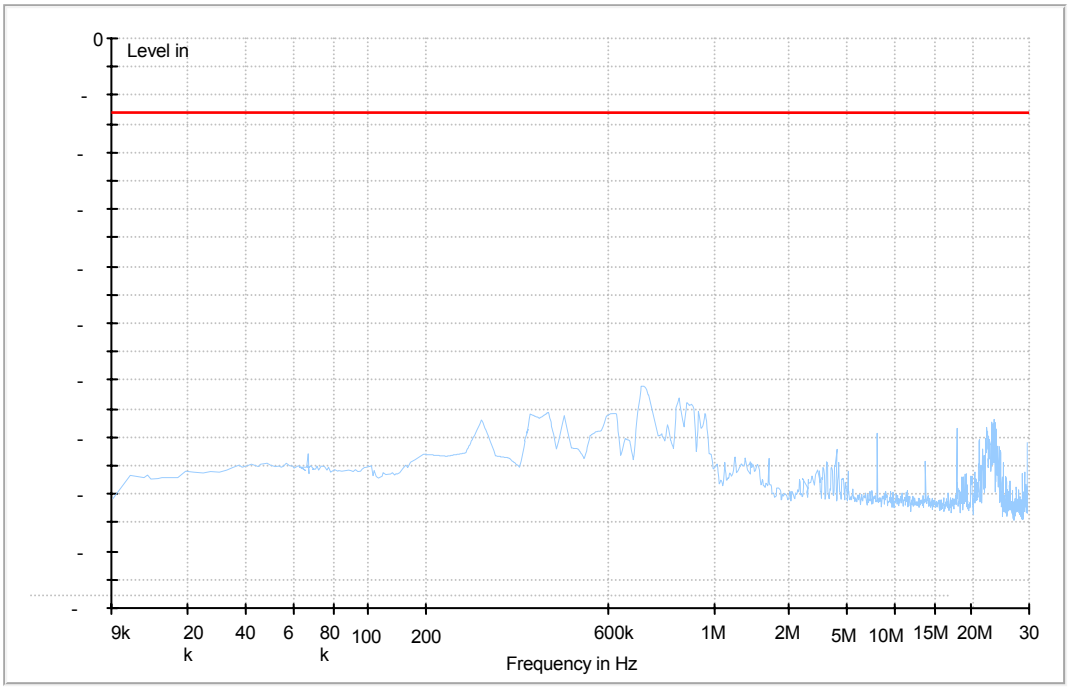


Traffic Mode (2GHz-18GHz)

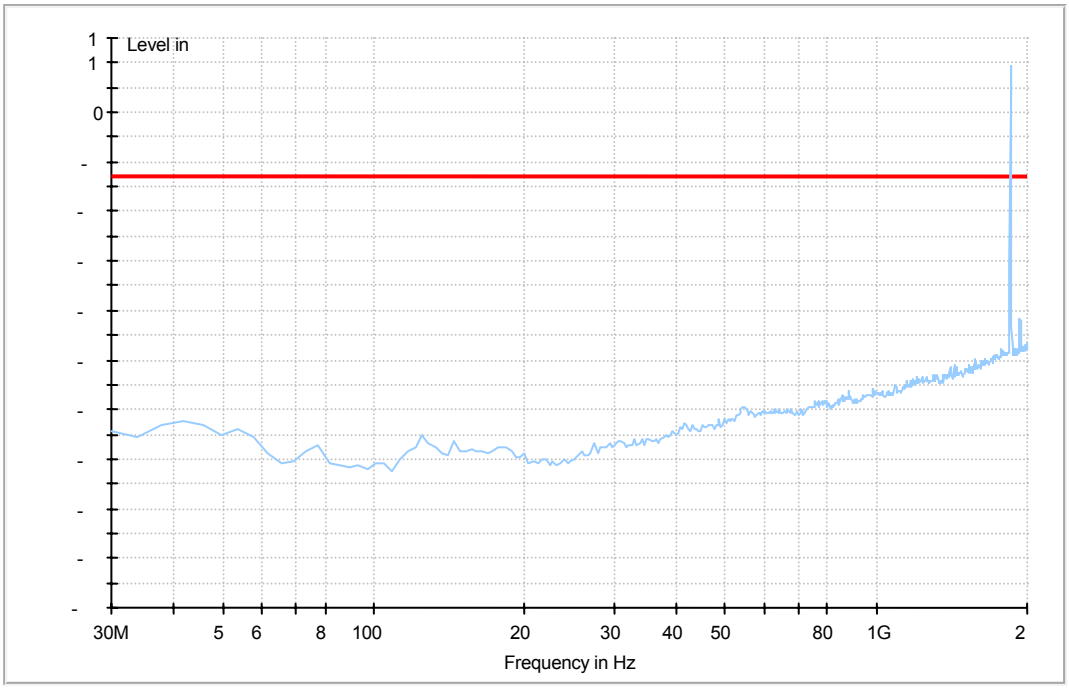


9.2.8 For WCDMA 1900

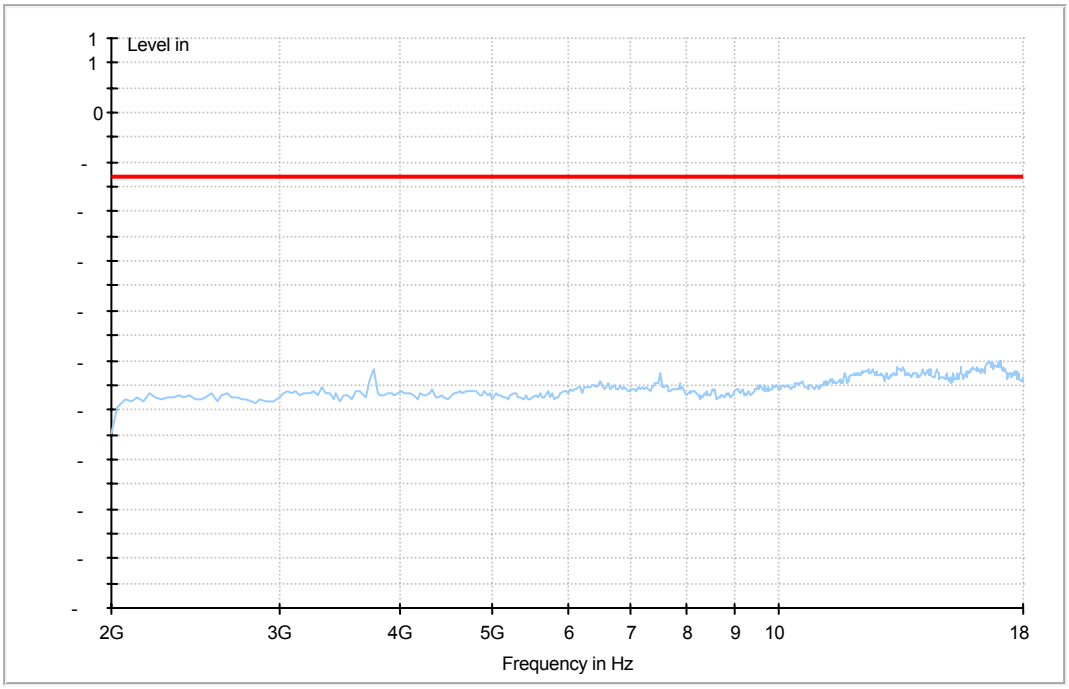
Traffic Mode (9kHz-30MHz)



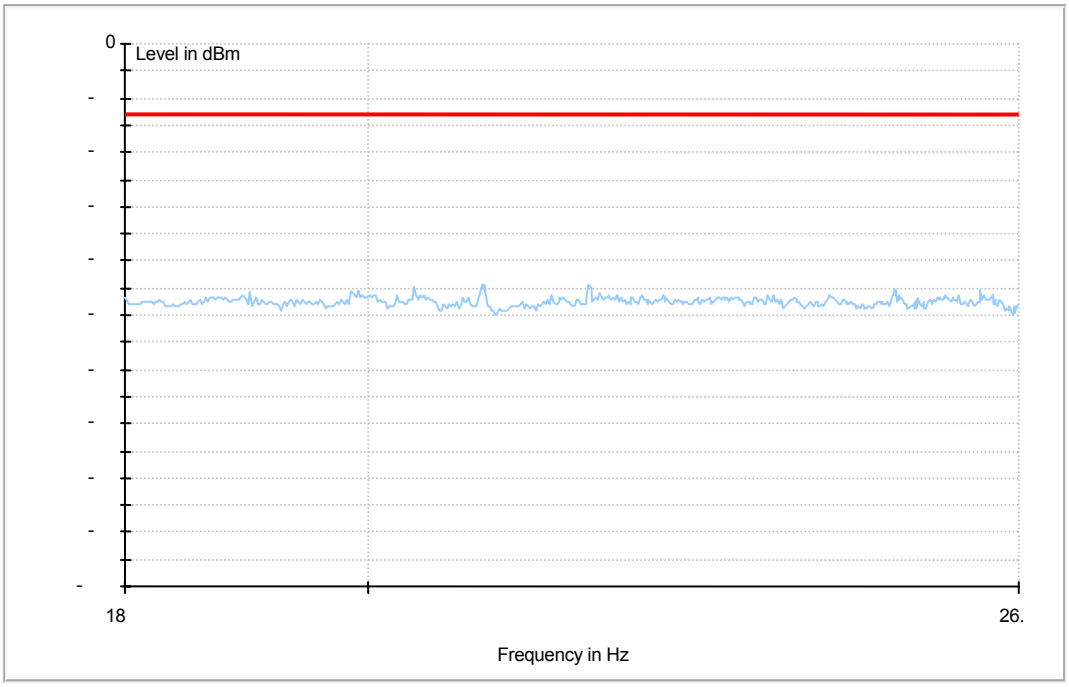
Traffic Mode (30MHz-2GHz)



Traffic Mode (2GHz-18GHz)

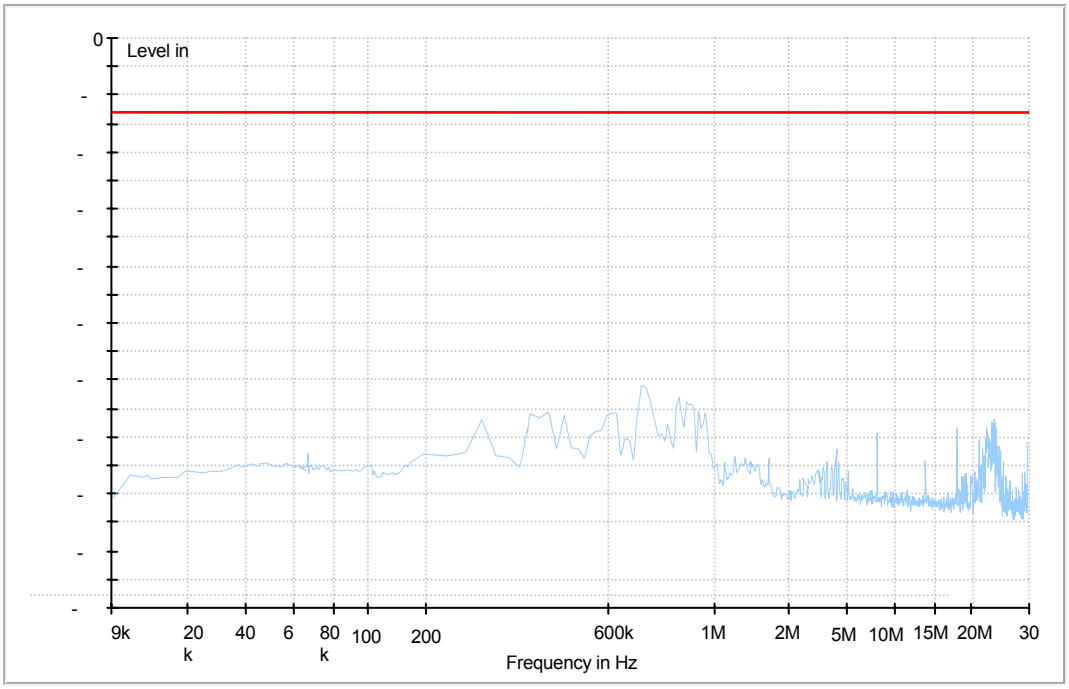


Traffic Mode (18GHz-26.5GHz)

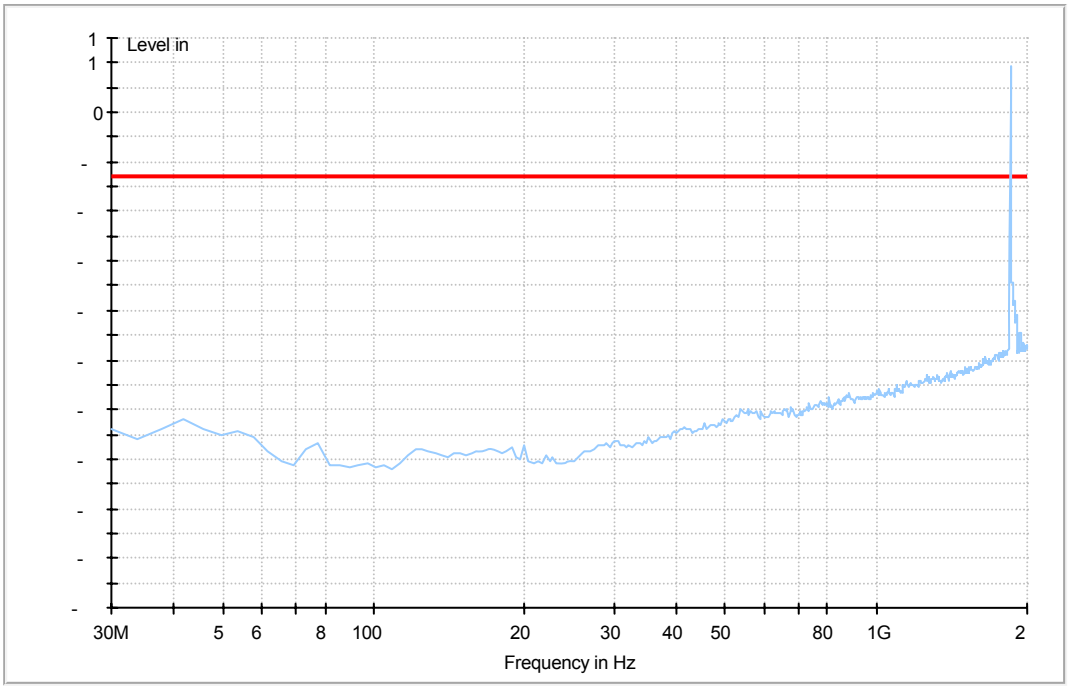


9.2.9 For HSDPA 1900

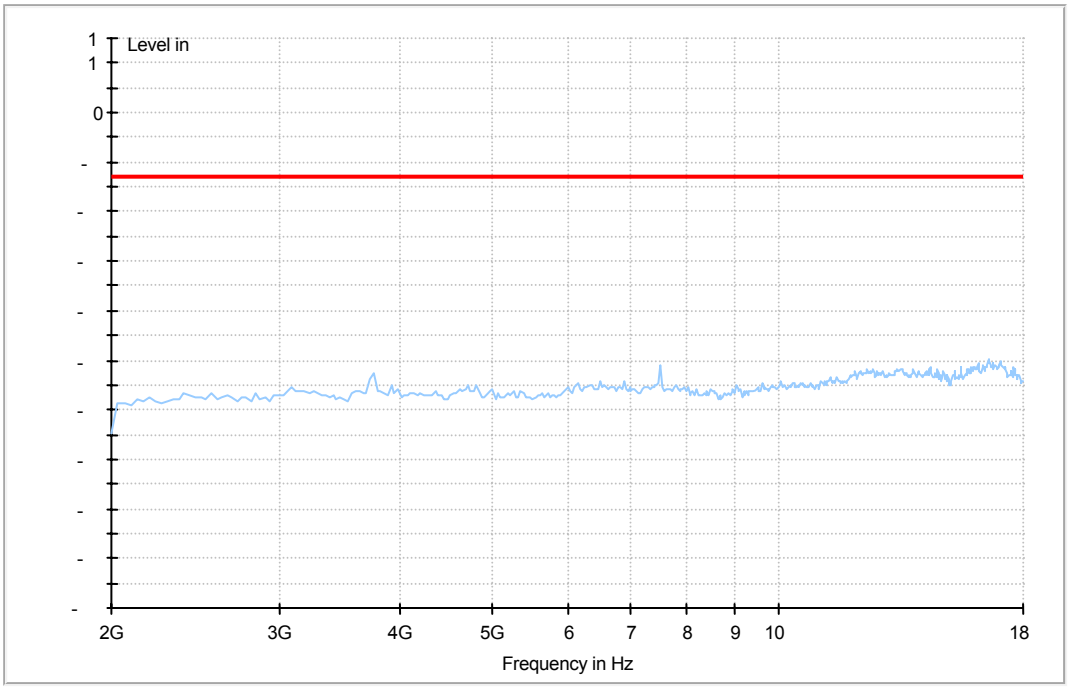
Traffic Mode (9kHz-30MHz)



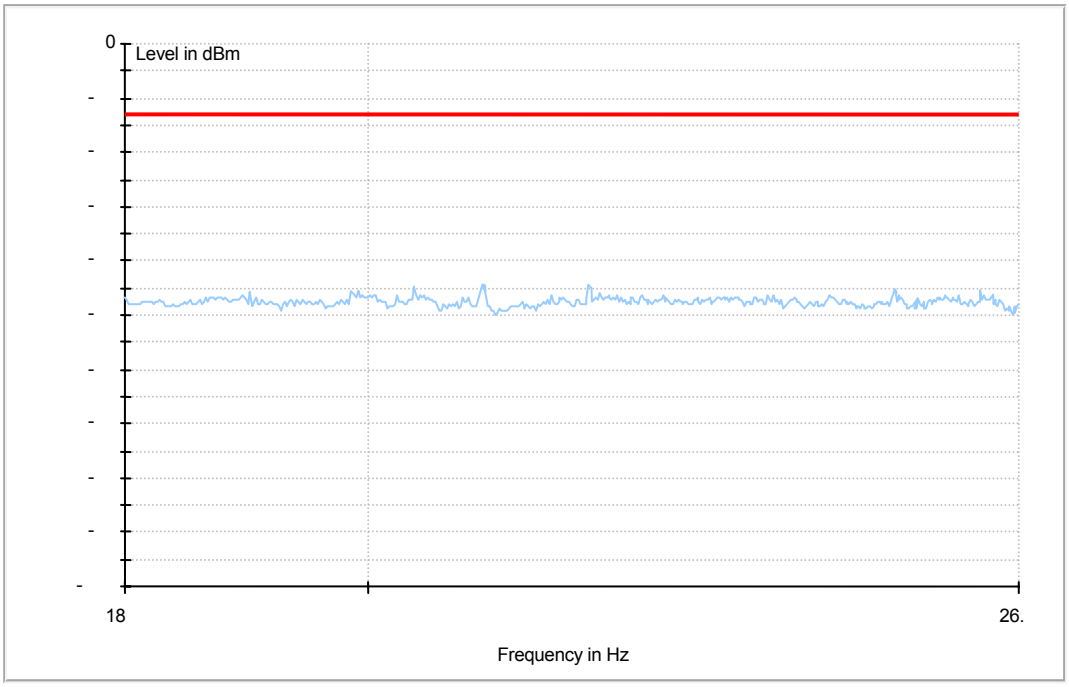
Traffic Mode (30MHz-2GHz)



Traffic Mode (2GHz-18GHz)

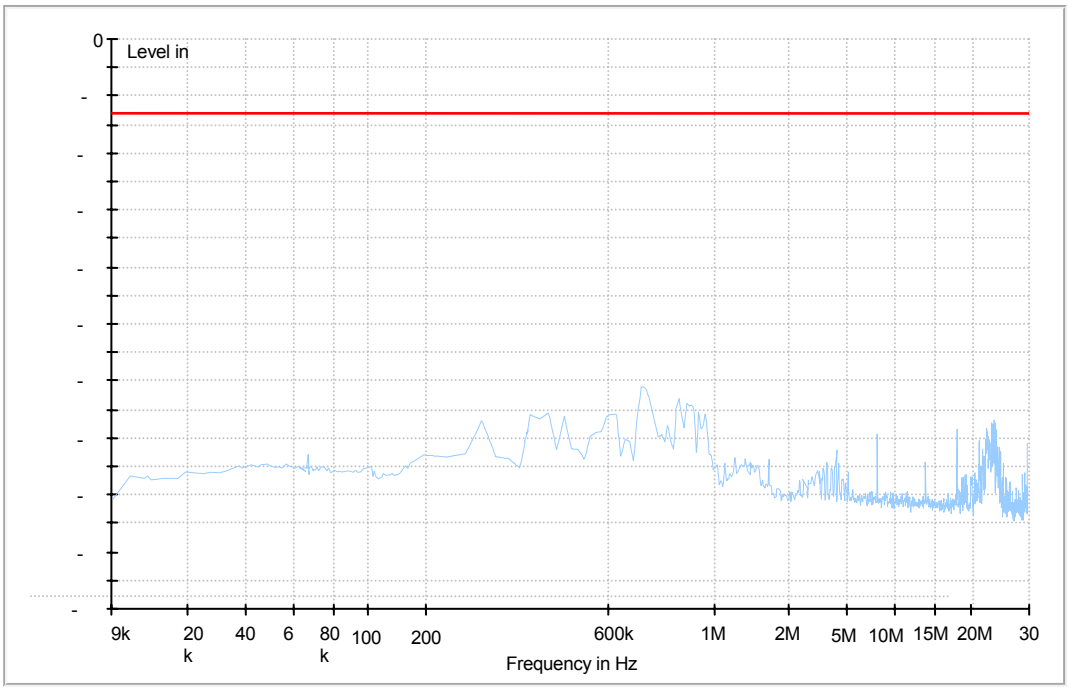


Traffic Mode (18GHz-26.5GHz)

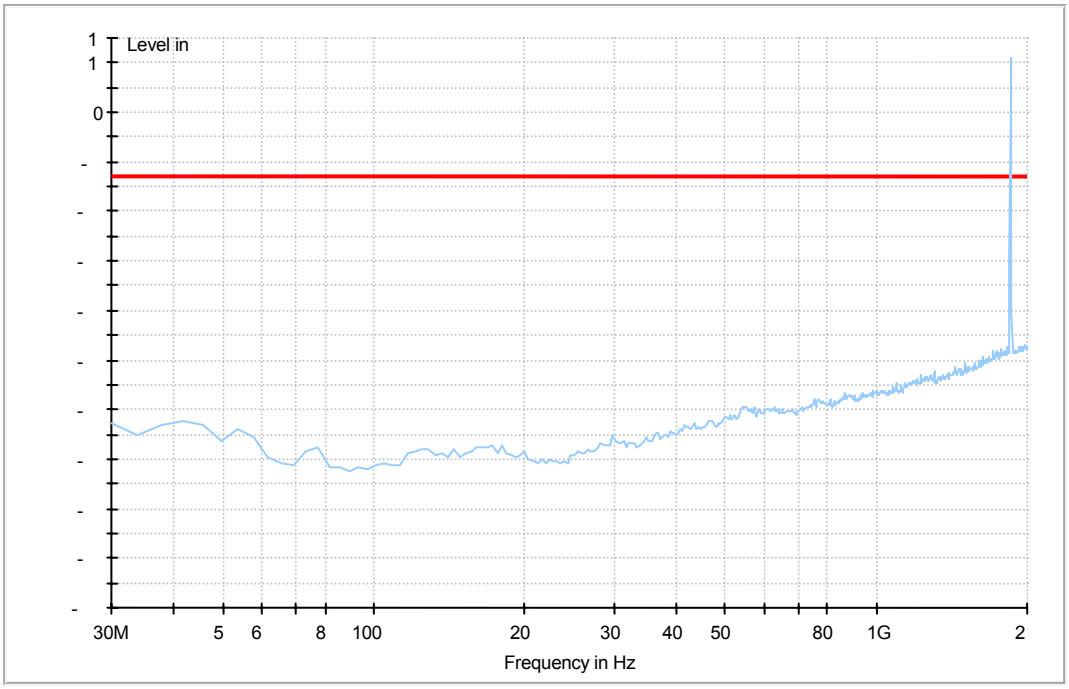


9.2.10 For HSUPA 1900

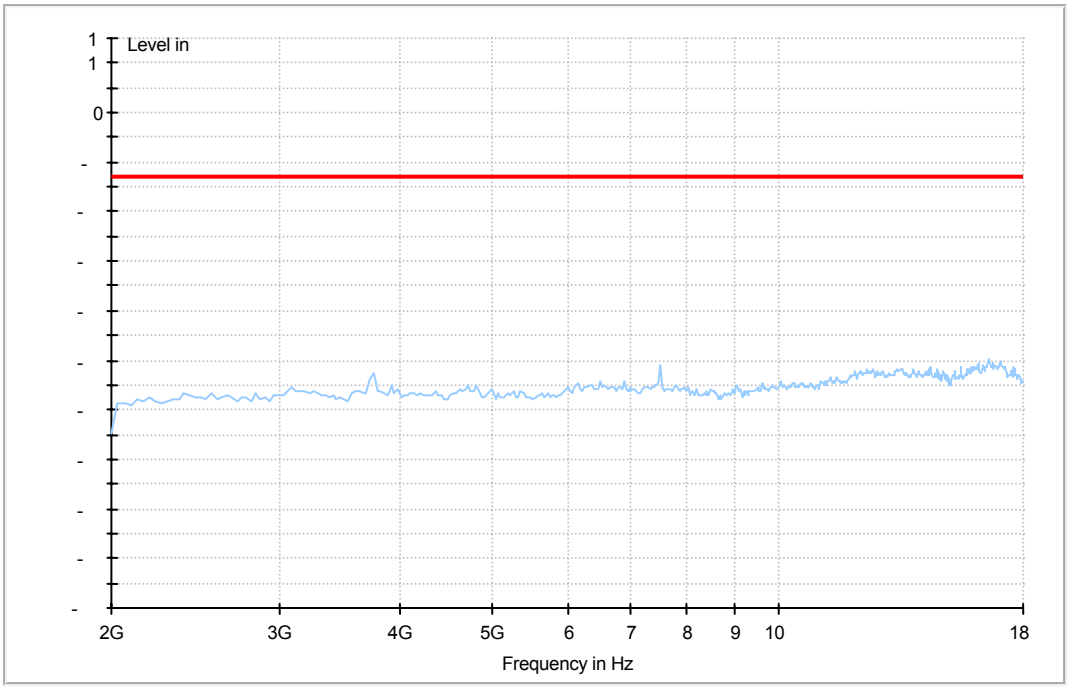
Traffic Mode (9kHz-30MHz)



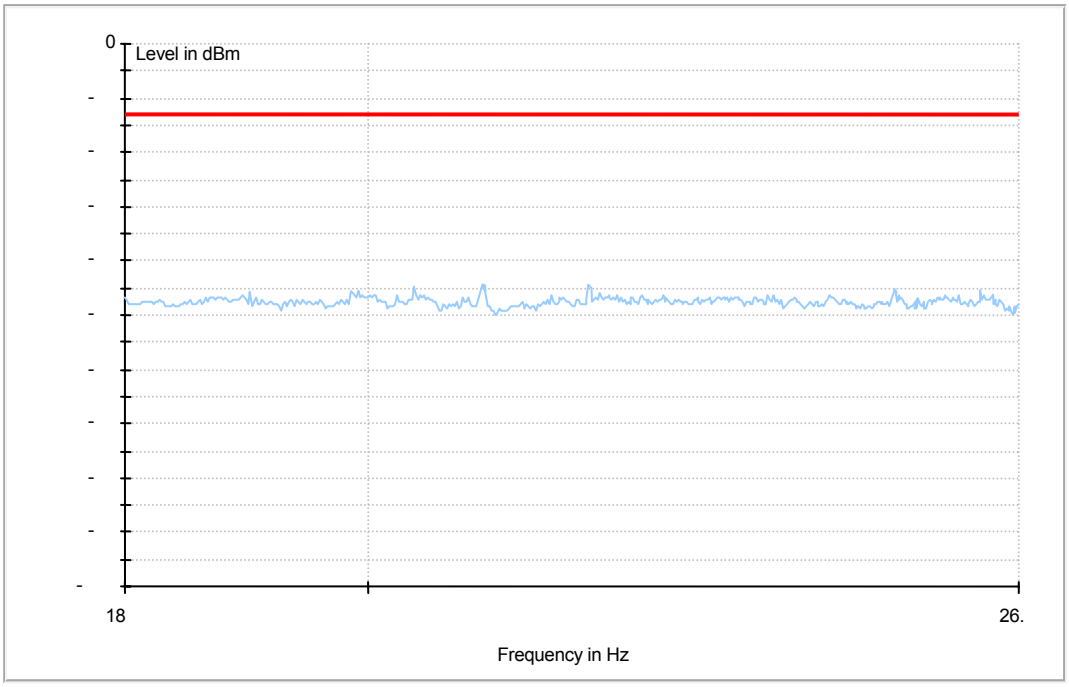
Traffic Mode (30MHz-2GHz)



Traffic Mode (2GHz-18GHz)



Traffic Mode (18GHz-26.5GHz)



END