

FCC Part 22H & 24E Measurement and Test Report

For

T-WORLD TECHNOLOGY(HK)CO., LIMITED

Room 3807, 3808AB, 3818, 3810, 38F, Saige Plaza, Huaqiang Road, Futian,

Shenzhen

FCC ID: ONHJVX3I

FCC Rules: FCC Part 22H, FCC Part 24E

Product Description: Mobile Phone

Tested Model: JV X3i

Report No.: STR12068255I-1

Tested Date: 2012-06-29 to 2012-07-12

Issued Date: 2012-07-13

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Approved & Authorized By: Jandy so / PSQ Manager

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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by SEM.Test Compliance Service Co., Ltd

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: T-WORLD TECHNOLOGY(HK)CO., LIMITED
 Address of applicant: Room 3807, 3808AB, 3818, 3810, 38F, Saige Plaza,
 Huaqiang Road, Futian, Shenzhen

Manufacturer: QUANZHOU T-WORLD ELECTRONIC
 EQUIPMENT CO., LTD
 Address of manufacturer: Room 1301, 13F, Block B, Mingxin Garden, Tian An
 Road, QuanZhou, Futian

General Description of EUT	
Product Name:	Mobile Phone
Trade Name:	Jivi
Model No.:	JV X3i
Adding Model(s):	JV X30, JV 3X, JVA3, JV X21, JV C3
IMEI:	911134003703837, 911134003703845
Rated Voltage:	DC 3.7V Li-ion Battery, Adapter DC5V
Power Adapter Model:	JV X3i (Input: AC 100-300V, 50/60Hz 150mA, Output: DC 5V, 600mA)
<i>Note: The test data is gathered from a production sample, provided by the manufacturer. The other model listed in the report has different appearance only of JV X3i without circuit and electronic construction changed, declared by the manufacturer</i>	

Technical Characteristics of EUT	
Cellular Network Protocol:	GSM/GPRS
Hardware Version:	V6.5
Software Version:	7707_65_YA_L03_BT_FM_SC_DUAL_128X160_3216_V130_120619_1156(PROD)
Frequency Range:	GSM/GPRS 850: 824~849MHz GSM/GPRS 1900: 1850~1910MHz
Max. RF Power(Conducted):	GSM850: 31.72 dBm; PCS1900: 29.21 dBm
Max. RF Power(ERP/EIRP):	GSM850: 29.72 dBm; PCS1900: 27.21 dBm
Type of Modulation:	GMSK
Type of Emission:	GSM(GSM850): 254KGXW GPRS(GSM850): 257KG7W GSM(PCS1900): 253KGXW GPRS(PCS1900): 254KG7W

Type of Antenna:	Integral Antenna
Antenna Gain:	-2.0 dBi
GPRS Class:	Class 10
Device Category:	Portable Device

1.2 Test Standards

The following report is prepared on behalf of the T-WORLD TECHNOLOGY(HK)CO., LIMITED in accordance with FCC Part 2 subpart J, FCC Part 22 subpart H and FCC Part 24 subpart E of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC Part 2 subpart J, FCC Part 22 subpart H and FCC Part 24 subpart E of the Federal Communication Commissions rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with TIA/EIA 603-C: 2004 and ANSI C63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

1.4 Test Facility

- **FCC – Registration No.: 994117**

SEM.Test Compliance Services Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files and the Registration is 994117.

- **Industry Canada (IC) Registration No.: 7673A**

The 3m Semi-anechoic chamber of SEM.Test Compliance Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 7673A.

- **CNAS Registration No.: L4062**

Shenzhen SEM.Test Electronics Service Co., Ltd. is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L4062. All measurement facilities used to collect the measurement data are located at 3/F, Jinbao Commerce Building, Xin'an Fanshen Road, Bao'an District, Shenzhen, P.R.C (518101)

1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	GSM 850	Low, Middle, High Channels
TM2	GPRS 850	Low, Middle, High Channels
TM3	GSM 1900	Low, Middle, High Channels
TM4	GPRS 1900	Low, Middle, High Channels

Testing Configure			
Support Band	Support Standard	Channel Frequency	Channel Number
GSM 850	GSM/GPRS	824.2 MHz	128
		836.6 MHz	190
		848.8 MHz	251
PCS 1900	GSM/GPRS	1850.2 MHz	512
		1880.0 MHz	661
		1909.8 MHz	810
Note: the transmitter has been tested on the communications mode of GSM and GPRS, compliance test and record the worst case.			

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
USB Cable	1.0	Shielded	Without Ferrite
DC Power Cable	0.9	Unshielded	Unshielded
Earphone Cable	0.9	Unshielded	Without Ferrite

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
Notebook	SAMSUNG	NP-R20	124V93FP30082V

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§ 1.1307, § 2.1093	RF Exposure	Compliant
§ 22.913 (a), § 24.232 (c)	RF Output Power	Compliant
§ 22.917 (b), § 24.238 (b)	Emission Bandwidth	Compliant
§ 22.917 (a), § 24.238 (a)	Spurious Emissions at Antenna Terminal	Compliant
§ 22.917 (a), § 24.238 (a)	Spurious Radiation Emissions	Compliant
§ 22.917 (a), § 24.238 (a)	Out of Band Emissions	Compliant
§ 22.355, § 24.235	Frequency Stability	Compliant

3. RF Exposure

3.1 Standard Applicable

According to § 1.1307 and § 2.1093, the portable transmitter must comply the RF exposure requirements.

3.2 Test Result

This product complied with the requirement of the RF exposure, please see the SAR report.

4. RF Output Power

4.1 Standard Applicable

According to §22.913(a)(2), The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

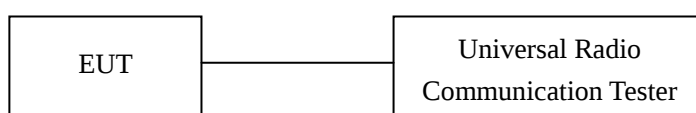
According to §24.232 (c), no any case may the peak output power of mobile or portable station transmitter exceed 2 Watt EIRP.

4.2 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	Rohde & Schwarz	FSP	836079/035	2012-03-28	2013-03-27
Pre-amplifier	Agilent	8447F	3113A06717	2012-03-28	2013-03-27
Pre-amplifier	Compliance Direction	PAP-0118	24002	2012-03-28	2013-03-27
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2012-02-25	2013-02-24
Horn Antenna	ETS	3117	00086197	2012-02-25	2013-02-24
Universal Radio Communication Tester	Rohde & Schwarz	CMU200	112012	2012-03-28	2013-03-27
Signal Generator	R&S	SMR20	100047	2012-03-28	2013-03-27

4.3 Test Procedure

Conducted output power test method:



Radiated power test method:

1. The setup of EUT is according with per TIA/EIA Standard 603C and ANSI C63.4-2003 measurement procedure.
2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

4.4 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

4.5 Summary of Test Results/Plots

Radiated Power

ERP For GSM Mode GSM850

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Corrected Ampl.	FCC Part 22H Limit
MHz	dBm	Meter	Degree	H / V	dB	dB	dBm	dBm
Low Channel								
824.2	27.85	1.5	0	H	1.5	0	26.35	38.45
824.2	31.22	1.5	0	V	1.5	0	29.72	38.45
Middle Channel								
836.6	27.70	1.5	0	H	1.5	0	26.20	38.45
836.6	31.15	1.5	0	V	1.5	0	29.65	38.45
High Channel								
848.8	27.63	1.5	0	H	1.5	0	26.13	38.45
848.8	31.15	1.5	0	V	1.5	0	29.65	38.45

EIRP For GSM Mode PCS1900

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Corrected Ampl.	FCC Part 24E Limit
MHz	dBm	Meter	Degree	H / V	dB	dB	dBm	dBm
Low Channel								
1850.2	18.58	1.5	0	H	1.9	7.7	24.38	33
1850.2	21.21	1.5	0	V	1.9	7.7	27.01	33
Middle Channel								
1880.0	18.77	1.5	0	H	1.9	7.7	24.57	33
1880.0	21.26	1.5	0	V	1.9	7.7	27.06	33
High Channel								
1909.8	18.82	1.5	0	H	1.9	7.7	24.62	33
1909.8	21.36	1.5	0	V	1.9	7.7	27.16	33

ERP For GPRS Mode GSM850

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Corrected Ampl.	FCC Part 22H Limit
MHz	dBm	Meter	Degree	H / V	dB	dB	dBm	dBm
Low Channel								
824.2	27.37	1.5	0	H	1.5	0	25.87	38.45
824.2	31.11	1.5	0	V	1.5	0	29.61	38.45
Middle Channel33.04								
836.6	26.91	1.5	0	H	1.5	0	25.41	38.45
836.6	31.18	1.5	0	V	1.5	0	29.68	38.45
High Channel								
848.8	26.50	1.5	0	H	1.5	0	25.00	38.45
848.8	31.22	1.5	0	V	1.5	0	29.72	38.45

EIRP For GPRS Mode PCS1900

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Corrected Ampl.	FCC Part 24E Limit
MHz	dBm	Meter	Degree	H / V	dB	dB	DBm	dBm
Low Channel								
1850.2	18.51	1.5	0	H	1.9	7.7	24.31	33
1850.2	21.26	1.5	0	V	1.9	7.7	27.06	33
Middle Channel								
1880.0	18.35	1.5	0	H	1.9	7.7	24.15	33
1880.0	21.29	1.5	0	V	1.9	7.7	27.09	33
High Channel								
1909.8	18.40	1.5	0	H	1.9	7.7	24.20	33
1909.8	21.41	1.5	0	V	1.9	7.7	27.21	33

Max. Conducted Output Power

For Cellular Band (GSM850)

Test Mode	Channel	Frequency (MHz)	Output Power (dBm)	FCC Part 22.913 Limit (dBm)
GSM	Low Channel	824.2	31.72	38.45
	Middle Channel	836.6	31.65	38.45
	High Channel	848.8	31.65	38.45
GPRS	Low Channel	824.2	31.61	38.45
	Middle Channel	836.6	31.68	38.45
	High Channel	848.8	31.72	38.45

For PCS Band (GSM1900)

Test Mode	Channel	Frequency (MHz)	Output Power (dBm)	FCC Part 24.232 Limit (dBm)
GSM	Low Channel	1850.2	29.01	33
	Middle Channel	1880.0	29.06	33
	High Channel	1909.8	29.16	33
GPRS	Low Channel	1850.2	29.06	33
	Middle Channel	1880.0	29.09	33
	High Channel	1909.8	29.21	33

5. Emission Bandwidth

5.1 Standard Applicable

According to §22.917(b), The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

According to §24.238(b), The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

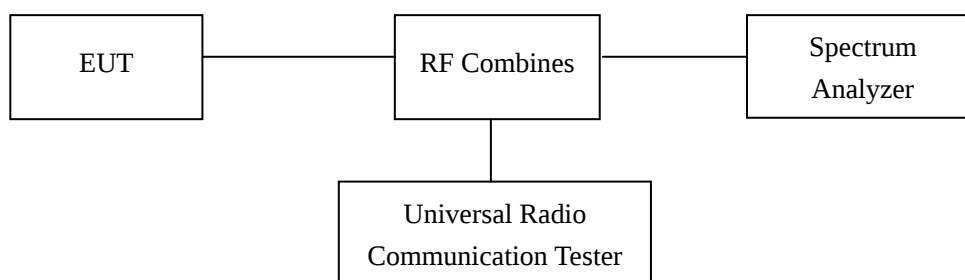
5.2 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Cal. Date	Due. Date
Aglient	Spectrum Analyzer	E4402B	US41192821	2012-03-28	2013-03-27
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	112012	2012-03-28	2013-03-27

5.3 Test Procedure

The RF output terminal of the transmitter was connected to the input of the spectrum analyzer via a suitable attenuation. The RBW of the spectrum analyzer was set to 30kHz and the 26dB bandwidth was recorded.

Test Configuration for the emission bandwidth testing:



5.4 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

5.5 Summary of Test Results/Plots

For Cellular Band

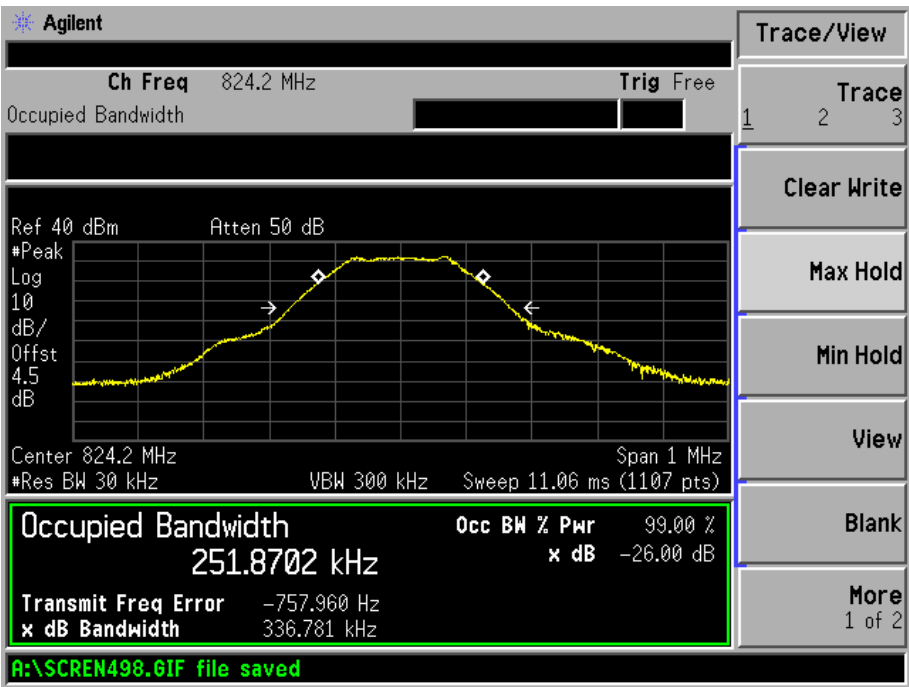
Test Mode	Channel	Frequency (MHz)	99% Emission Bandwidth (kHz)	26 dB Emission Bandwidth (kHz)
GSM	128	824.2	251.8702	336.781
	190	836.6	251.9482	337.276
	251	848.8	254.3828	337.105
GPRS	128	824.2	253.0051	338.295
	190	836.6	256.8501	340.459
	251	848.8	255.4984	340.315

For PCS Band

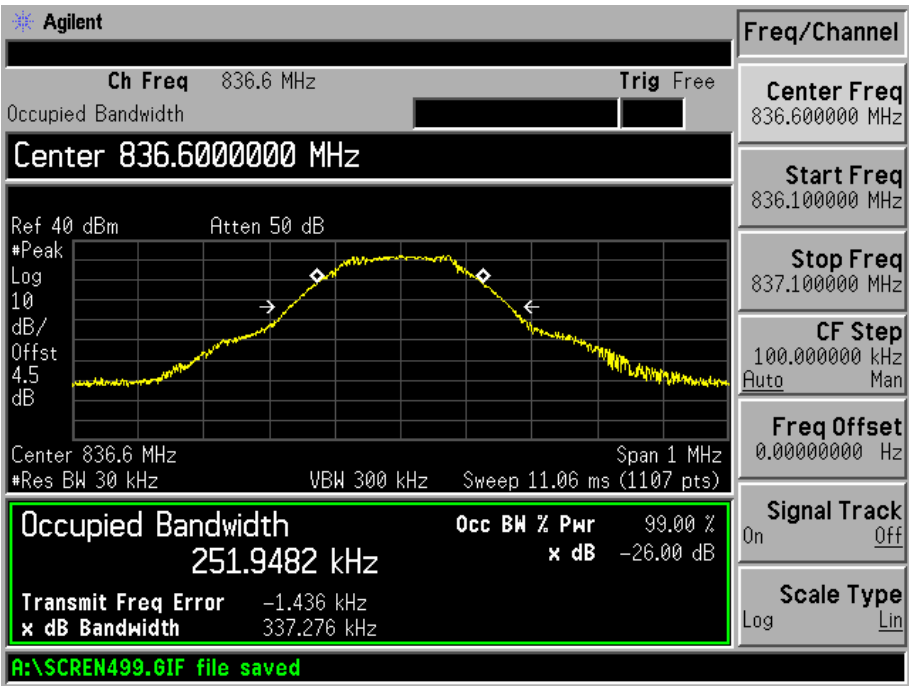
Test Mode	Channel	Frequency (MHz)	99% Emission Bandwidth (kHz)	26 dB Emission Bandwidth (kHz)
GSM	512	1850.2	253.3137	338.465
	661	1880.0	253.1934	340.763
	810	1909.8	253.4184	336.667
GPRS	512	1850.2	252.2930	342.561
	661	1880.0	254.2747	339.284
	810	1909.8	252.0184	340.970

Please refer to the following test plots:

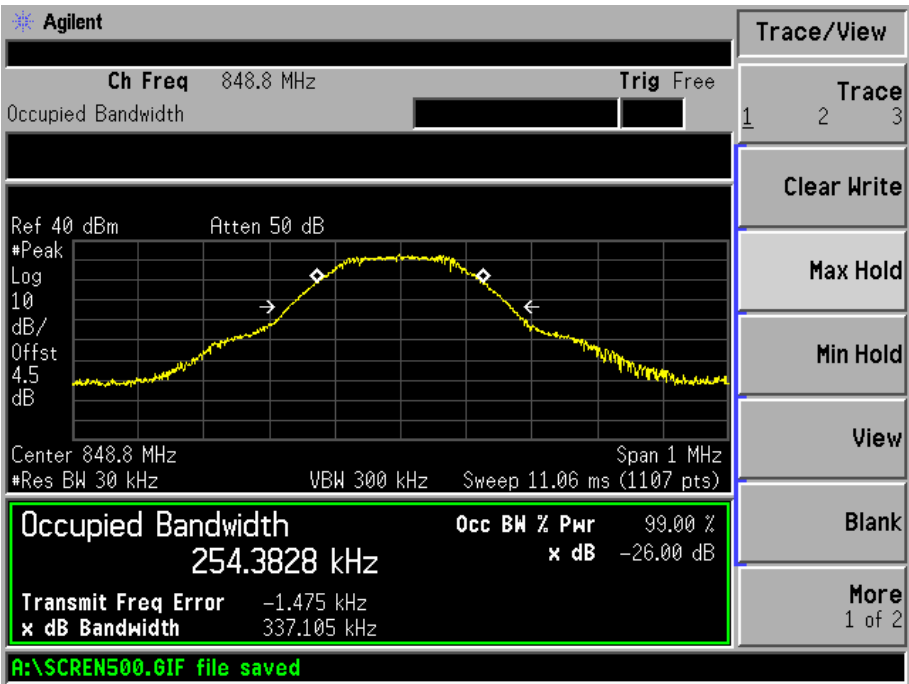
For Cellular Band
GSM Low Channel



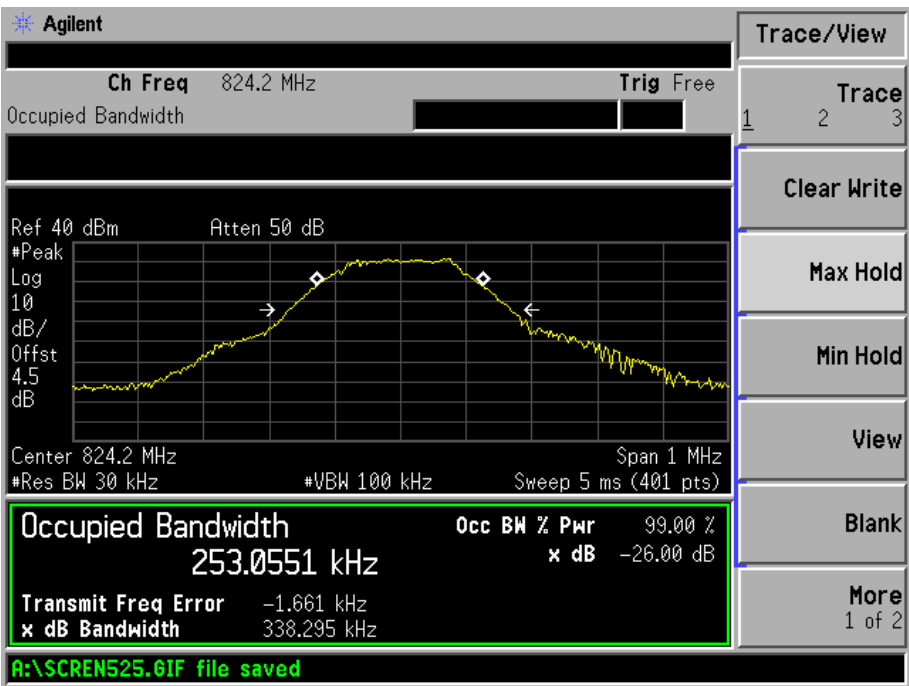
GSM Middle Channel



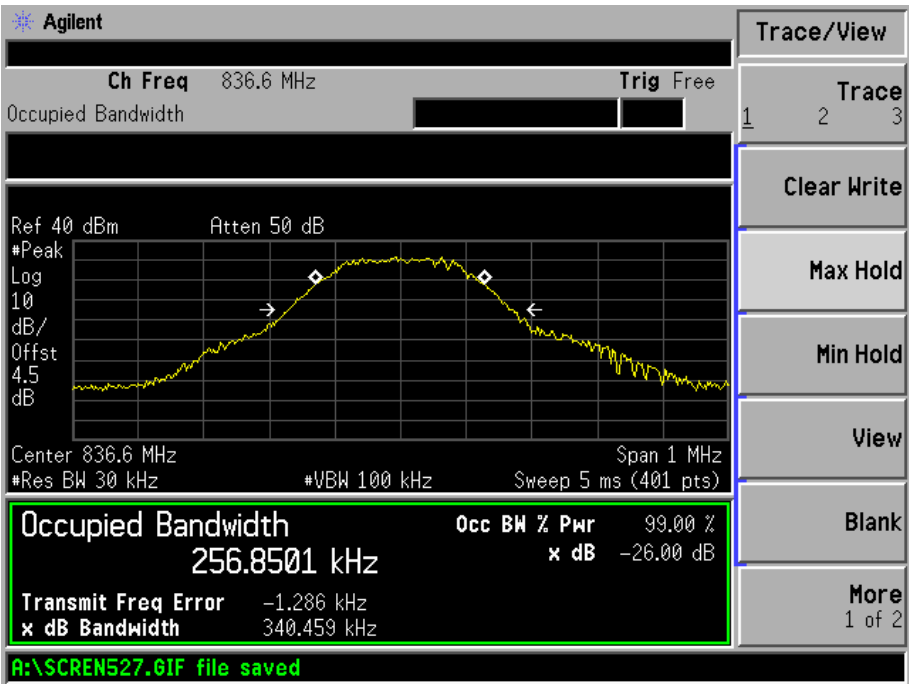
GSM High channel



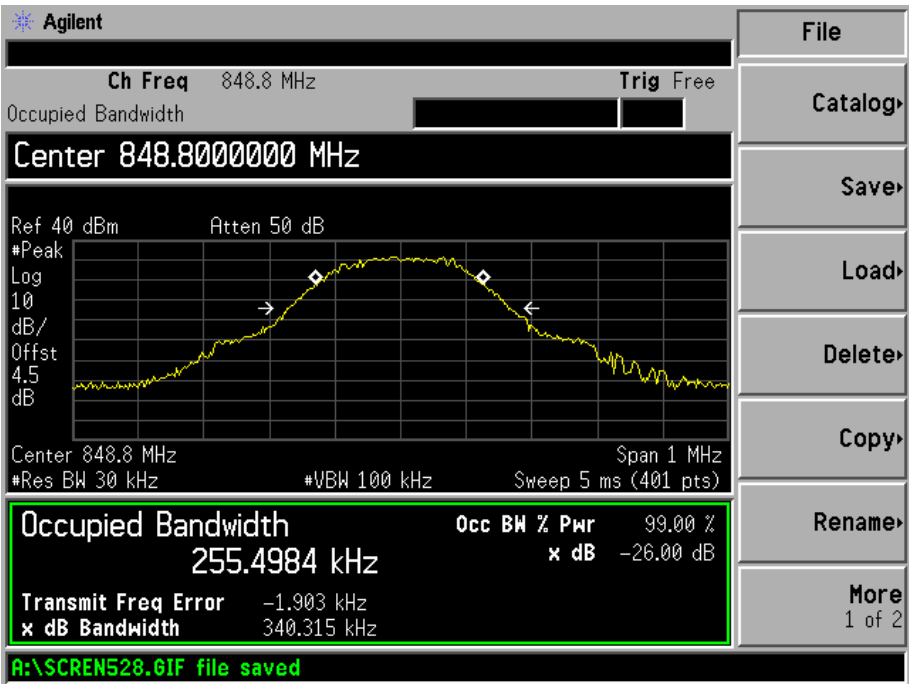
GPRS Low Channel



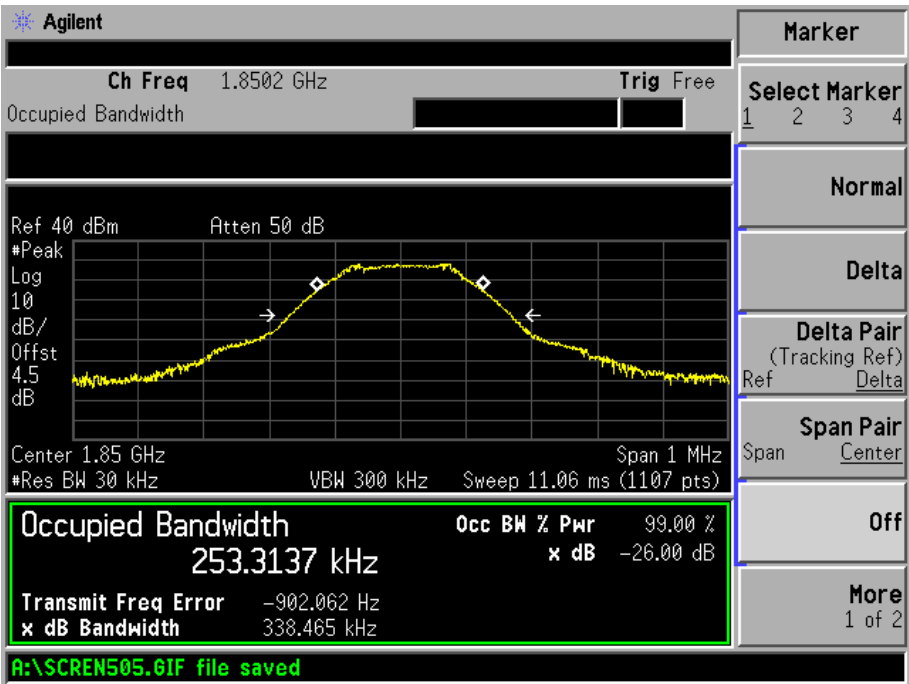
GPRS Middle Channel



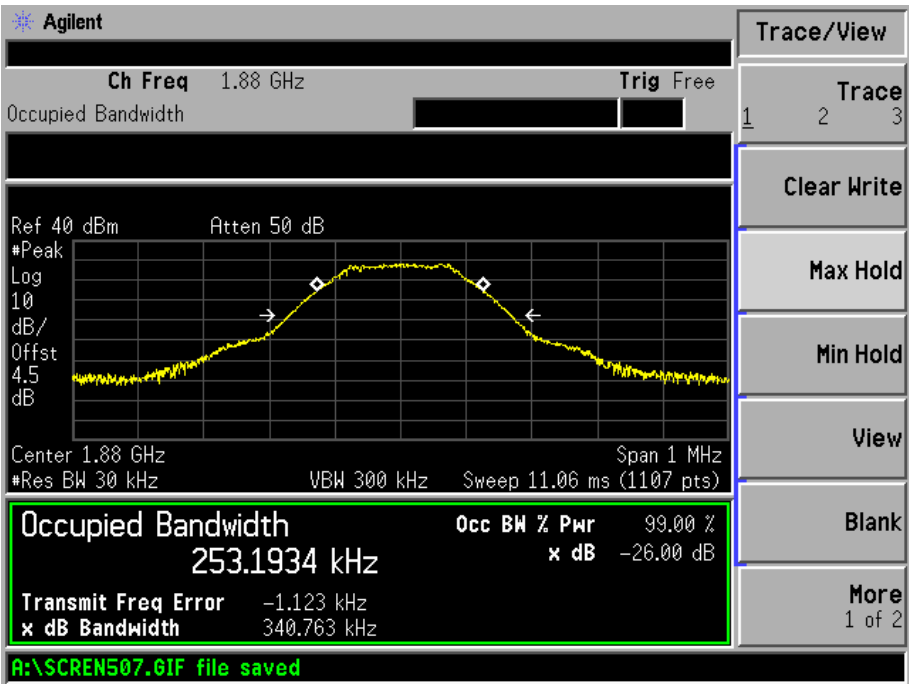
GPRS High Channel



For PCS Band
GSM Low Channel



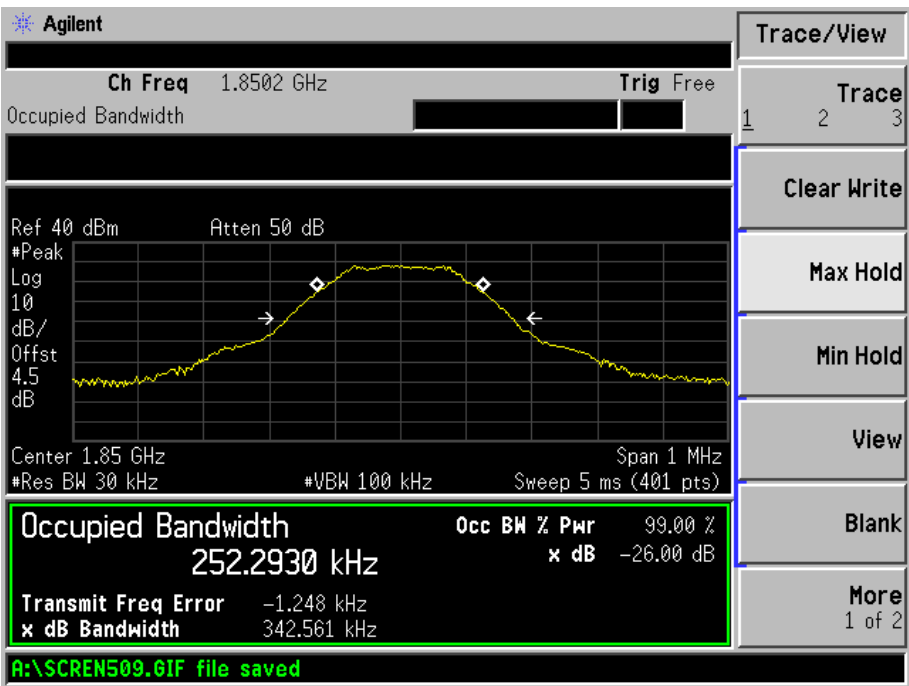
GSM Middle Channel



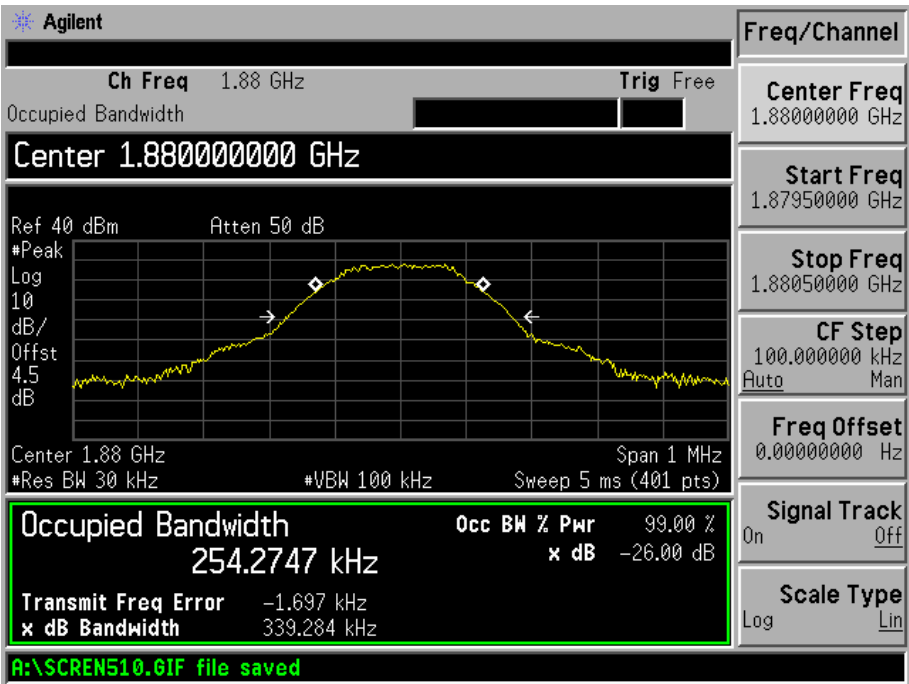
GSM High channel



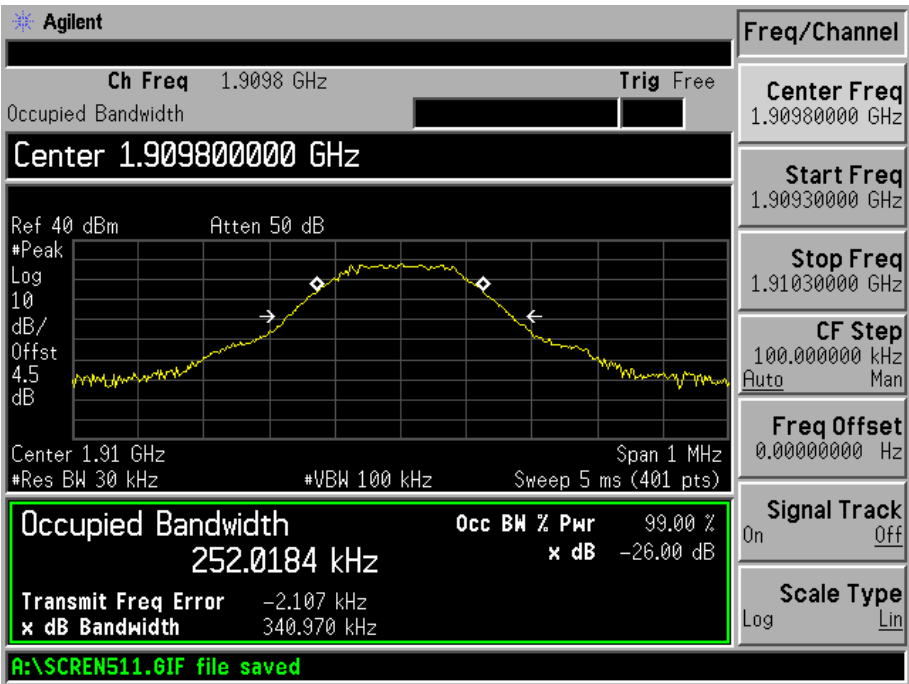
GPRS Low Channel



GPRS Middle Channel



GPRS High Channel



6. Out of Band Emissions at Antenna Terminal

6.1 Standard Applicable

According to §22.917(a), the power of any emissions 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.

According to §24.238(a), the power of any emissions 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.

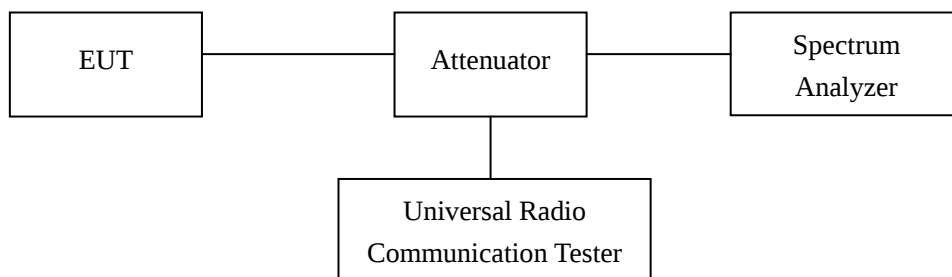
6.2 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Cal. Date	Due. Date
Aglient	Spectrum Analyzer	E4402B	US41192821	2012-03-28	2013-03-27
Rohde & Schwarz	Spectrum Analyzer	FSP	836079/035	2012-03-28	2013-03-27
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	112012	2012-03-28	2013-03-27

6.3 Test Procedure

The RF output terminal of the transmitter was connected to the input of the spectrum analyzer via a suitable attenuation. The RBW of the spectrum analyzer was set to 100kHz and 1MHz for the scan frequency from 30MHz to 1GHz and the scan frequency from 1GHz to up to 10th harmonic.

Test Configuration for the out of band emissions testing:



6.4 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

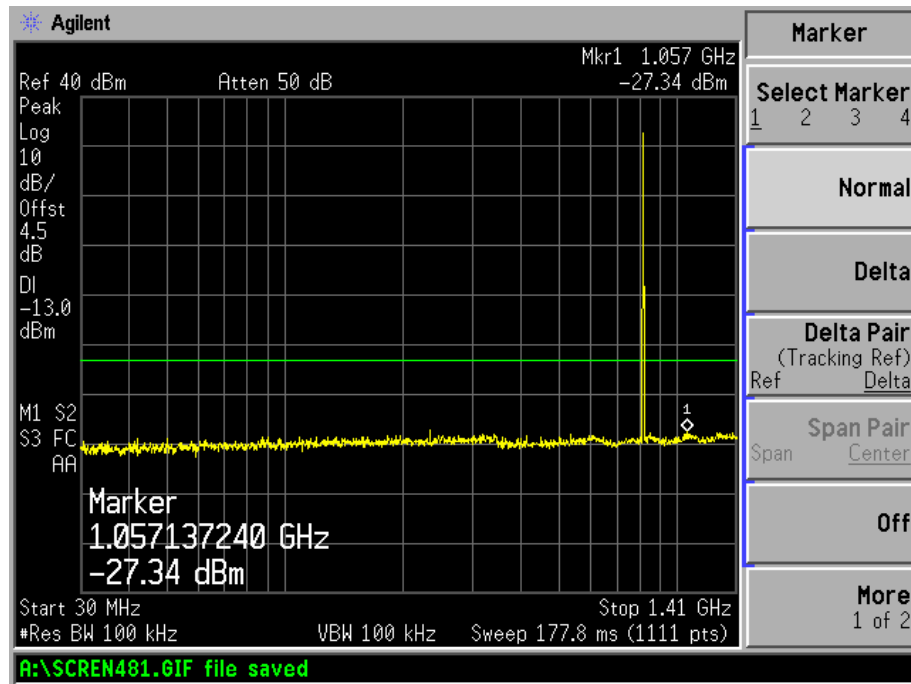
6.5 Summary of Test Results/Plots

Please refer to the following test plots

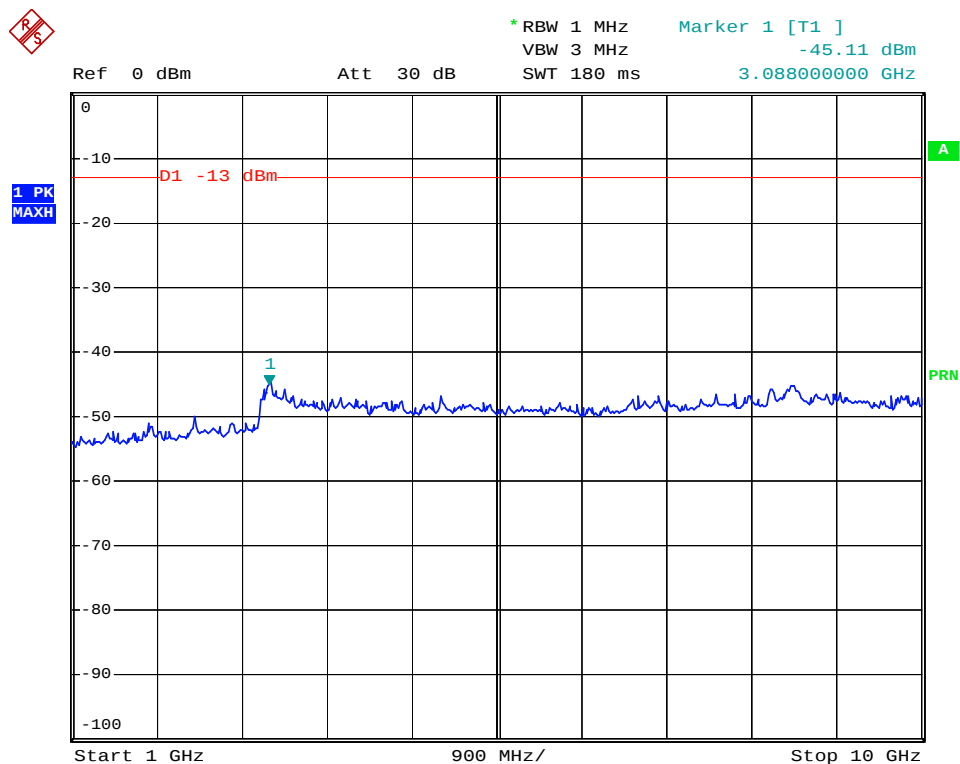
For Cellular Band

GSM Low Channel

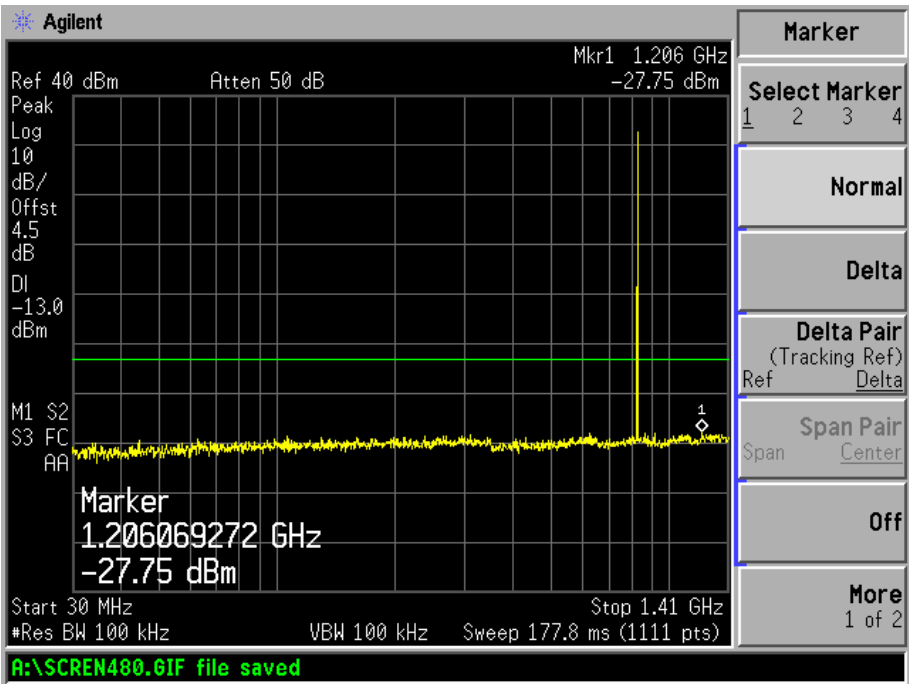
30MHz to 1GHz



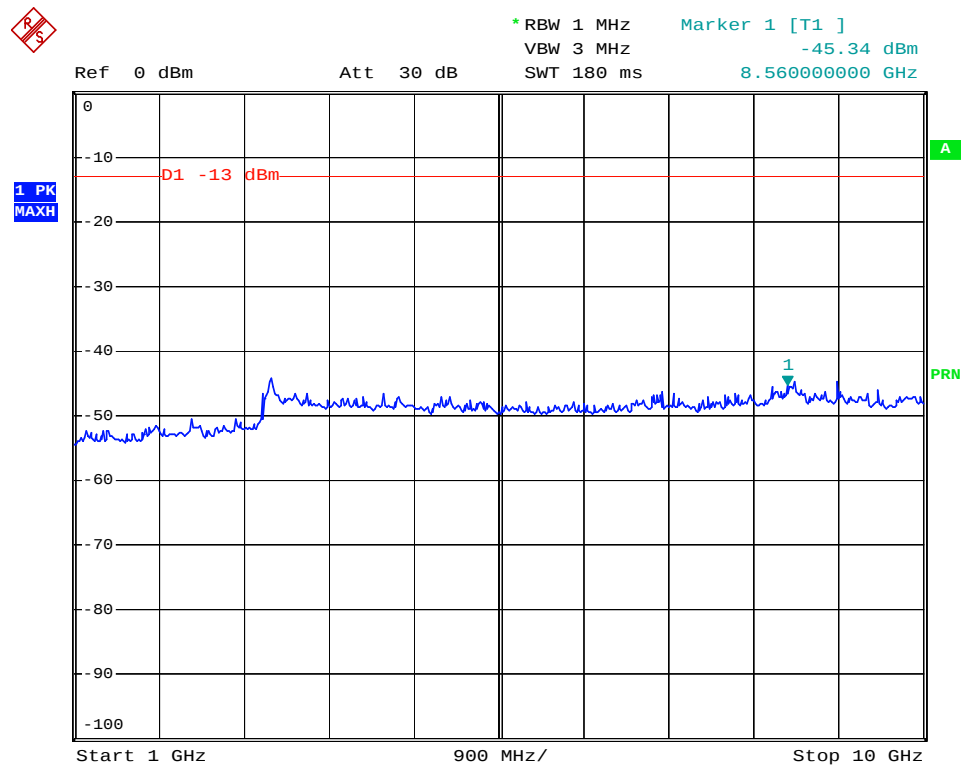
Above 1GHz



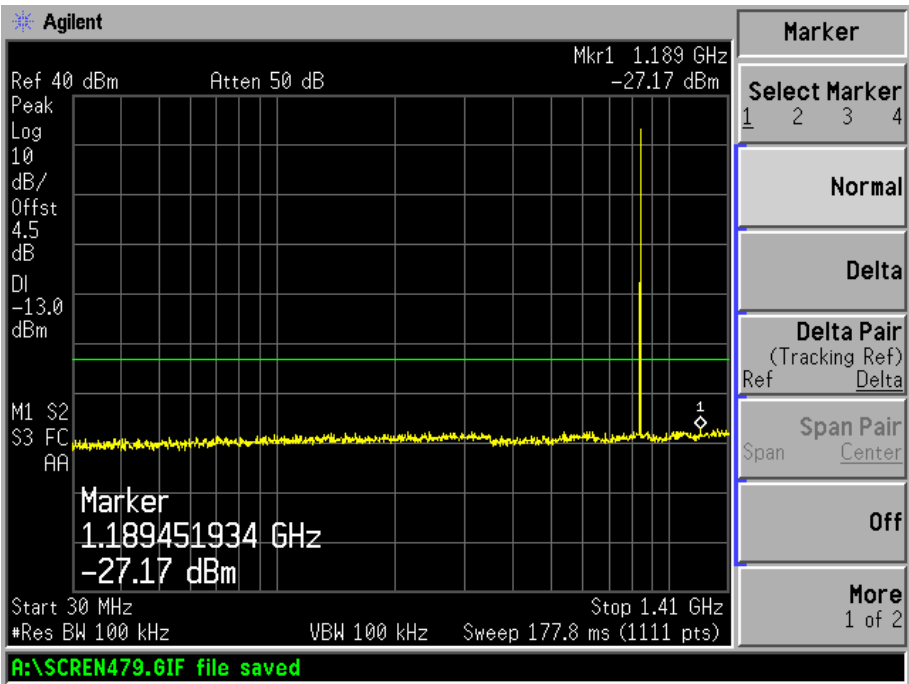
GSM Middle Channel
30MHz to 1GHz



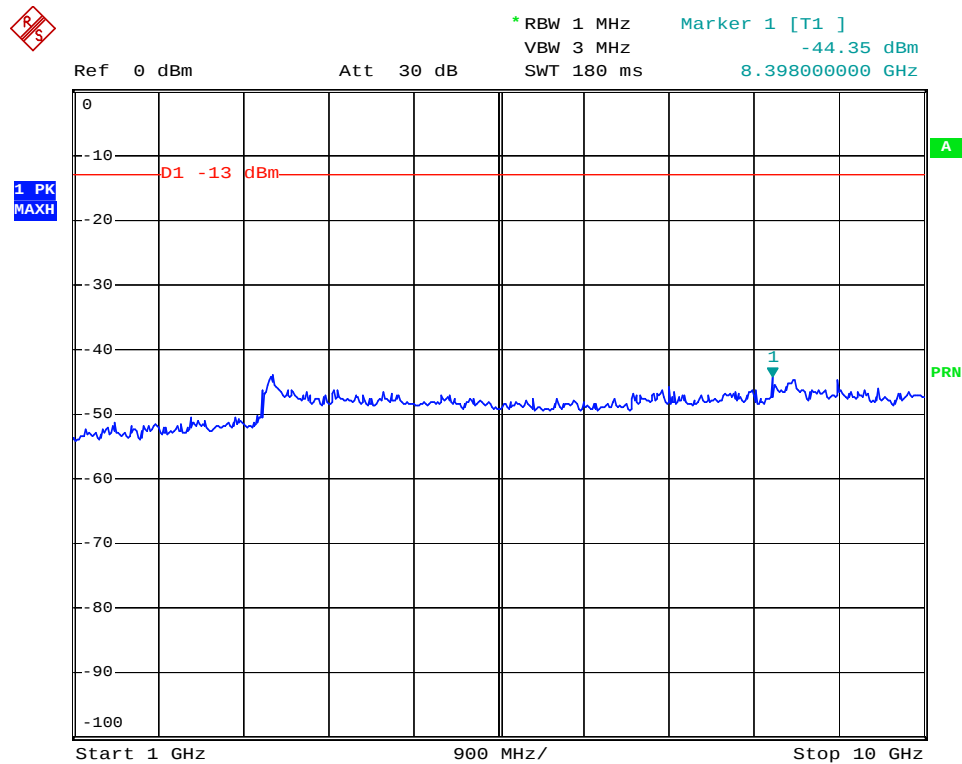
Above 1GHz



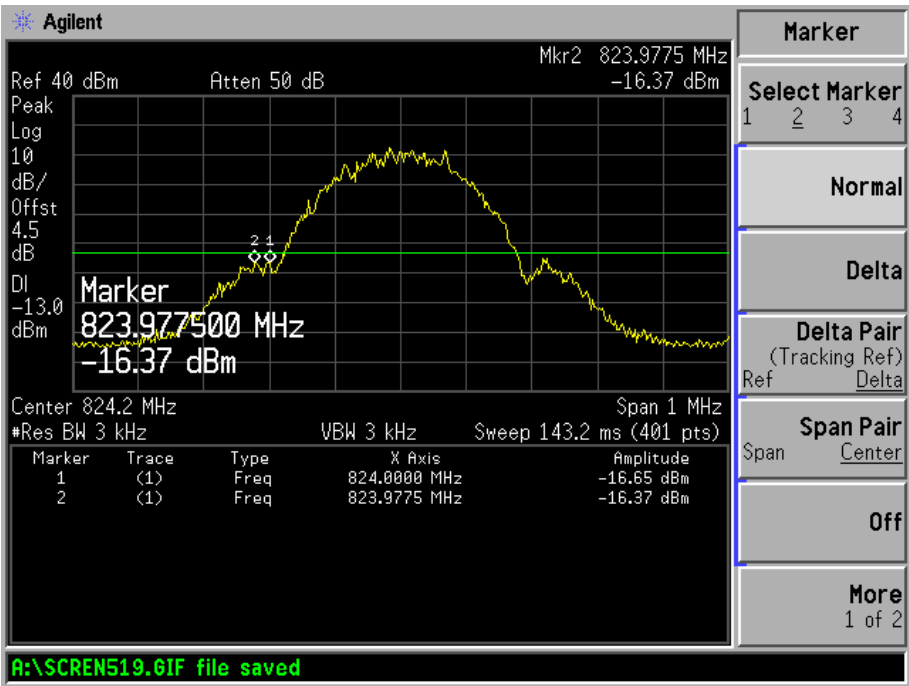
GSM High Channel
30MHz to 1GHz



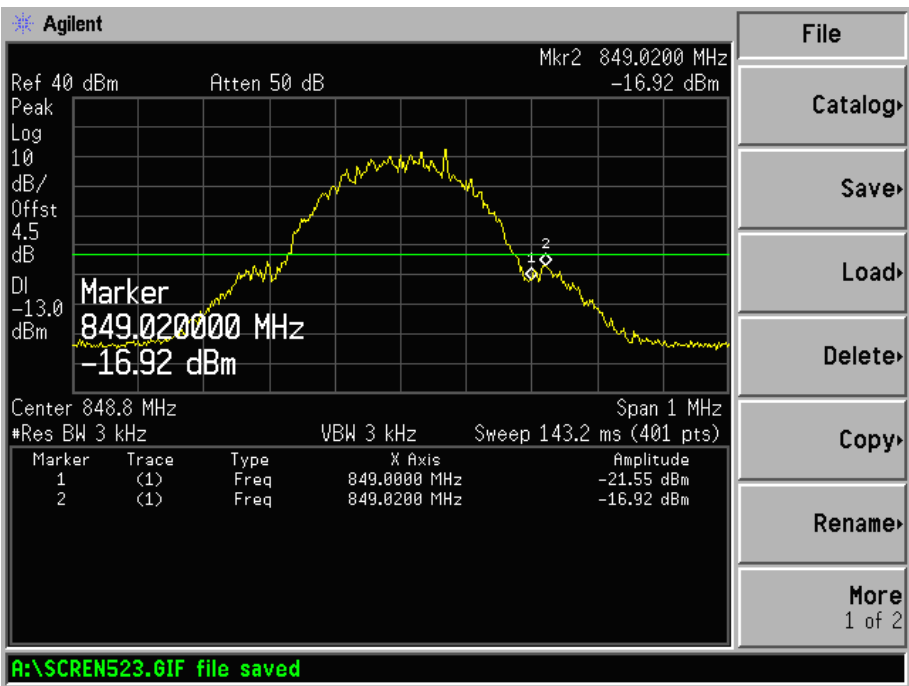
Above 1GHz



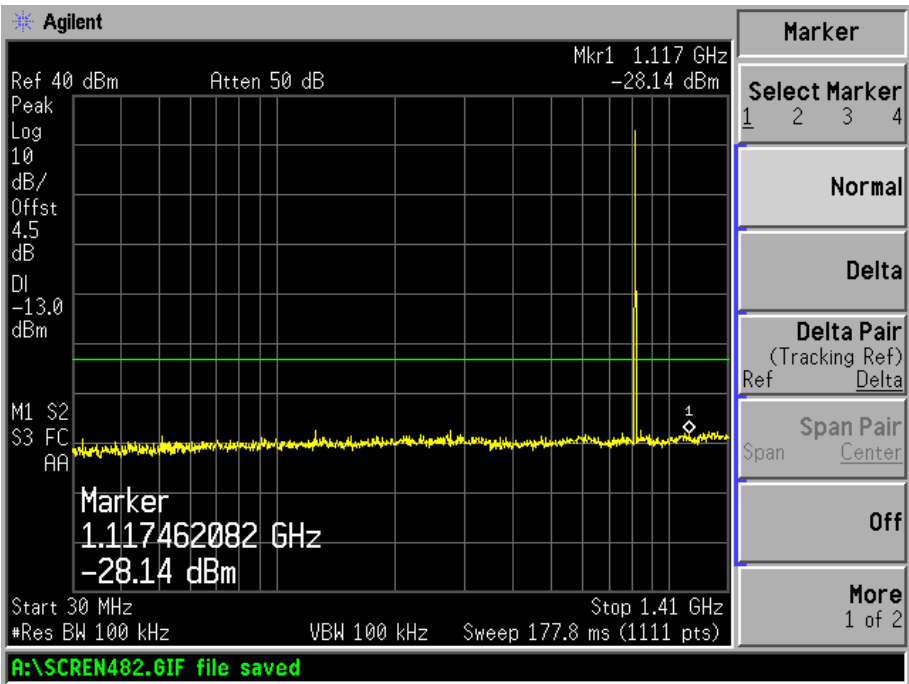
GSM Low Band Emission



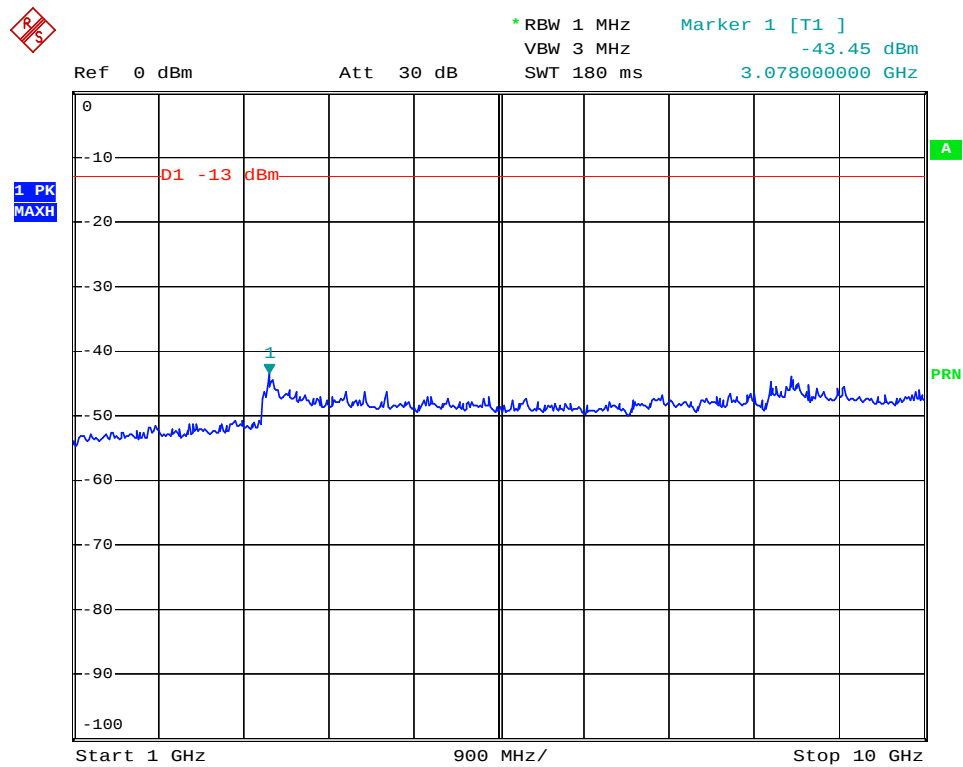
GSM High Band Emission



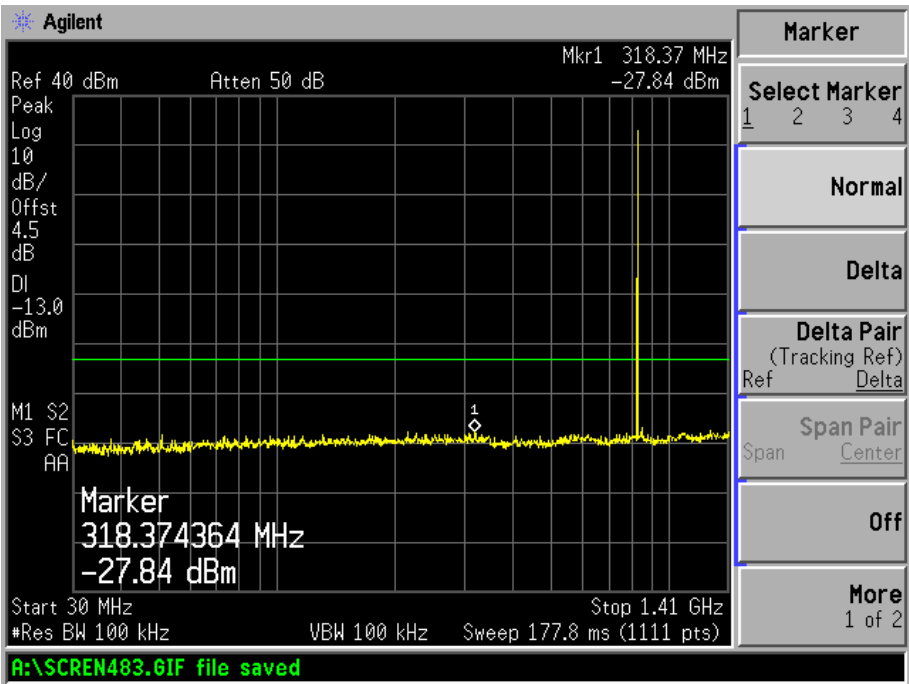
GPRS Low Channel
30MHz to 1GHz



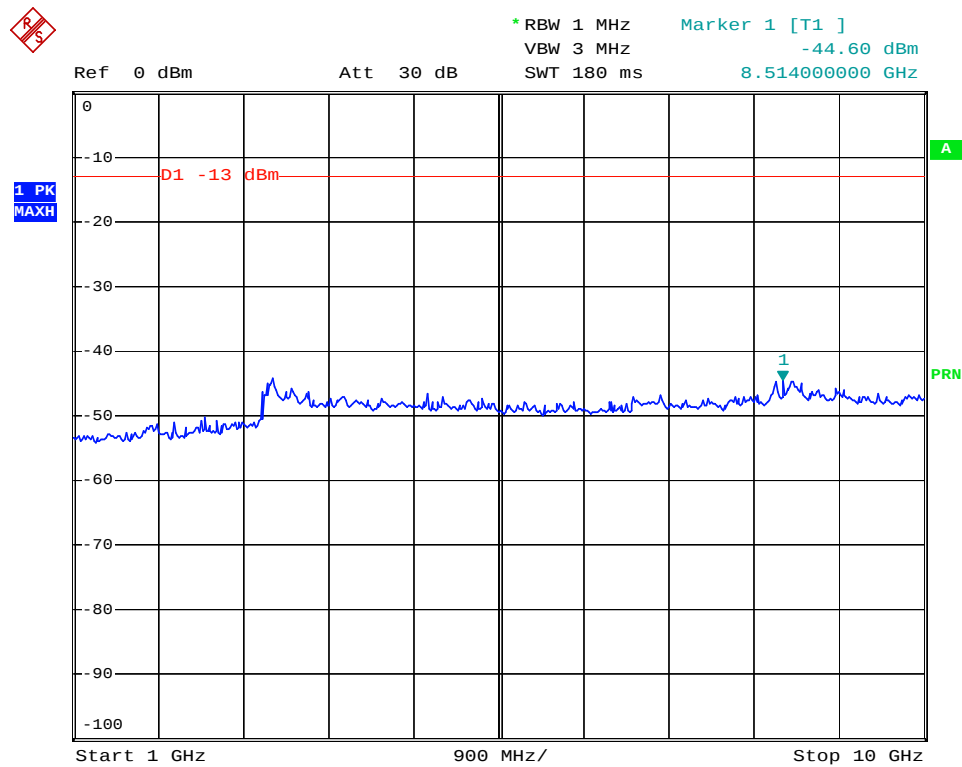
Above 1GHz



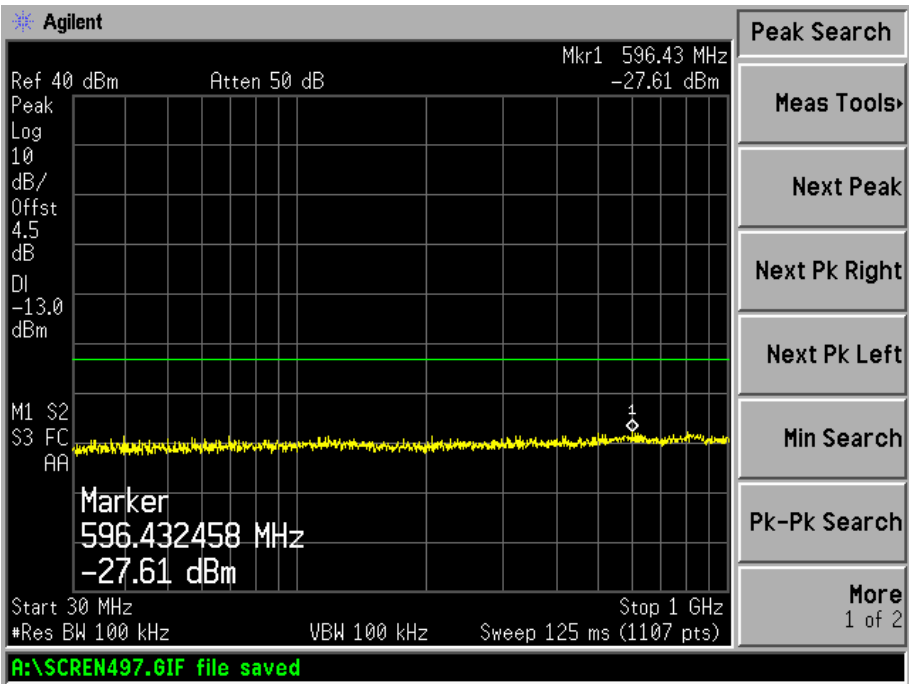
GPRS Middle Channel
30MHz to 1GHz



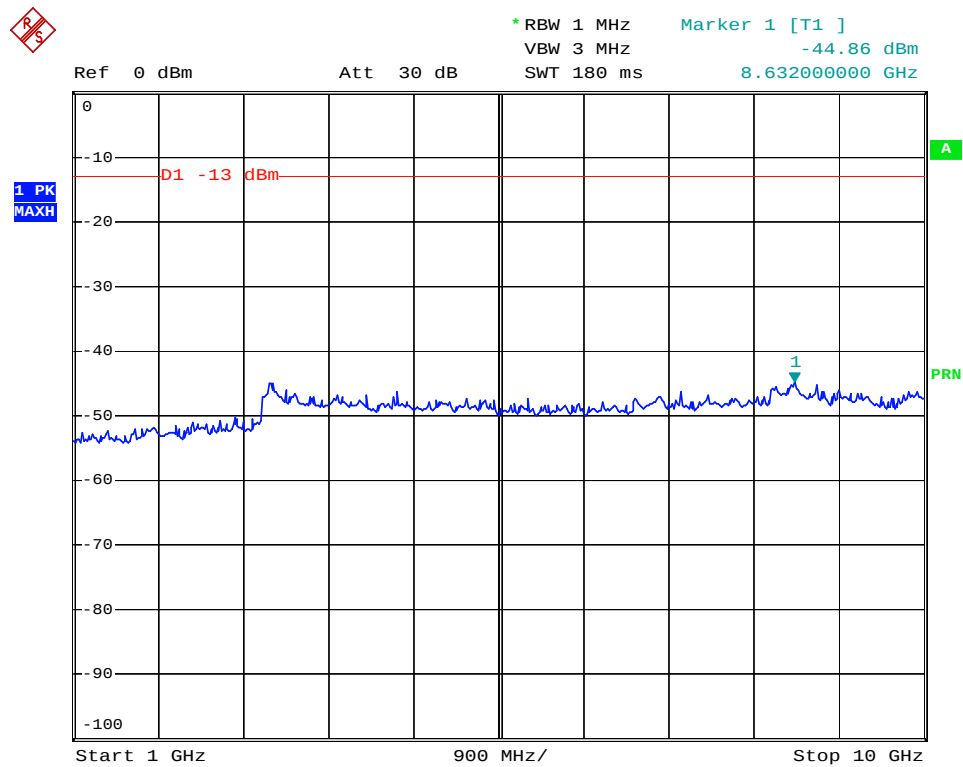
Above 1GHz



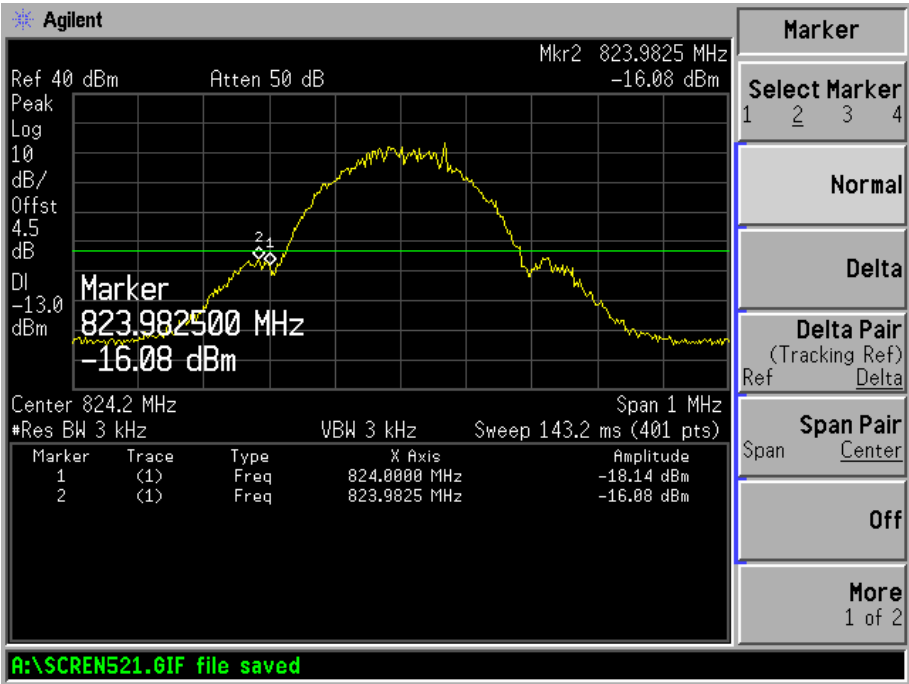
GPRS High Channel
30MHz to 1GHz



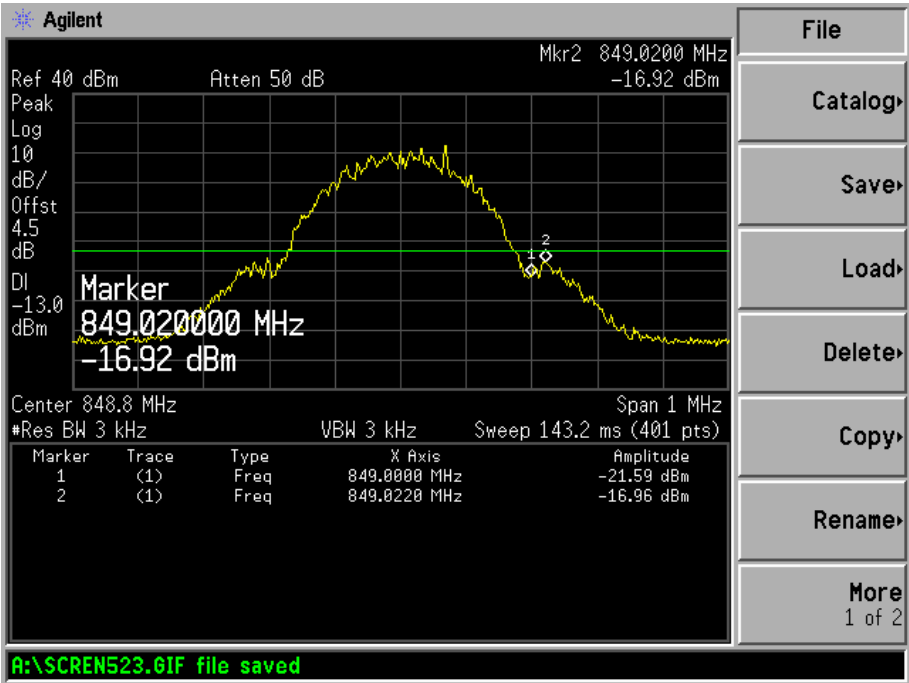
Above 1GHz



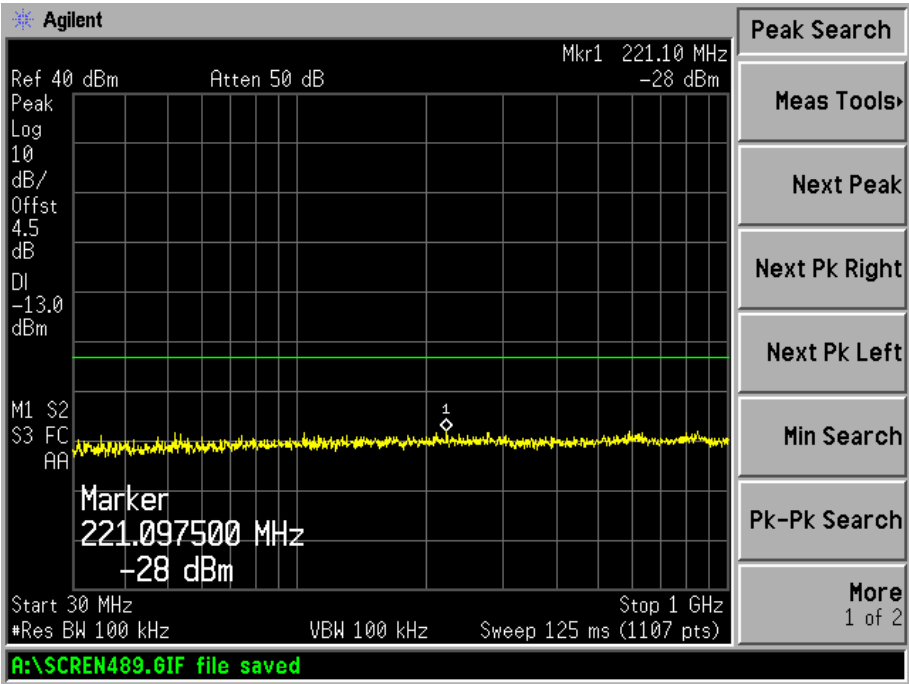
GPRS Low Band Emission



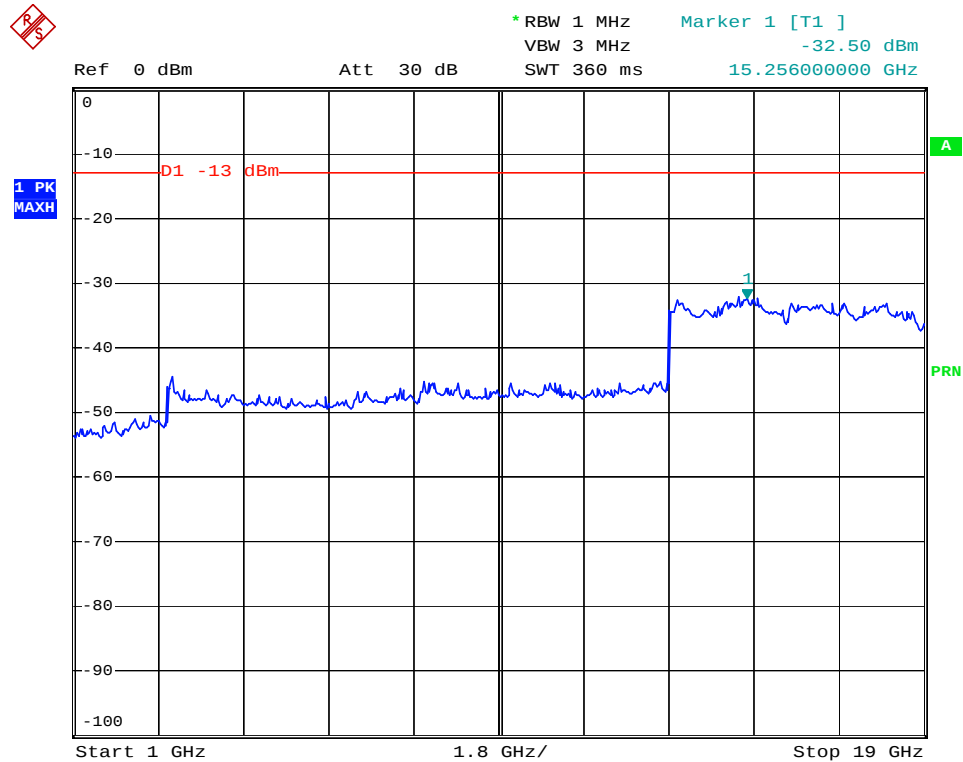
GPRS High Band Emission



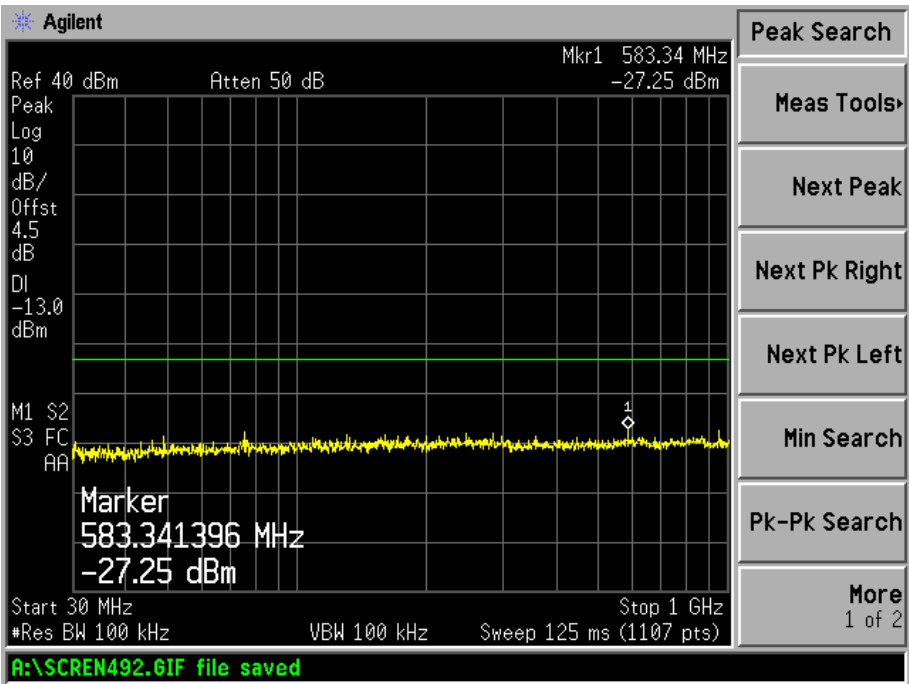
For PCS Band
GSM Low Channel
30MHz to 1GHz



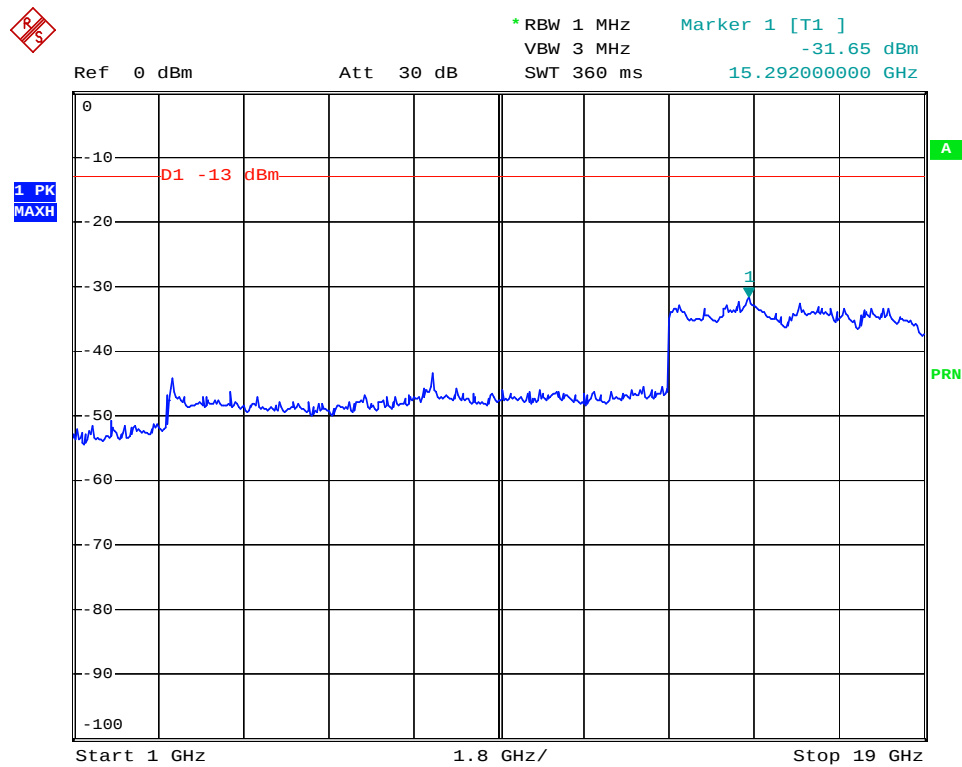
Above 1GHz



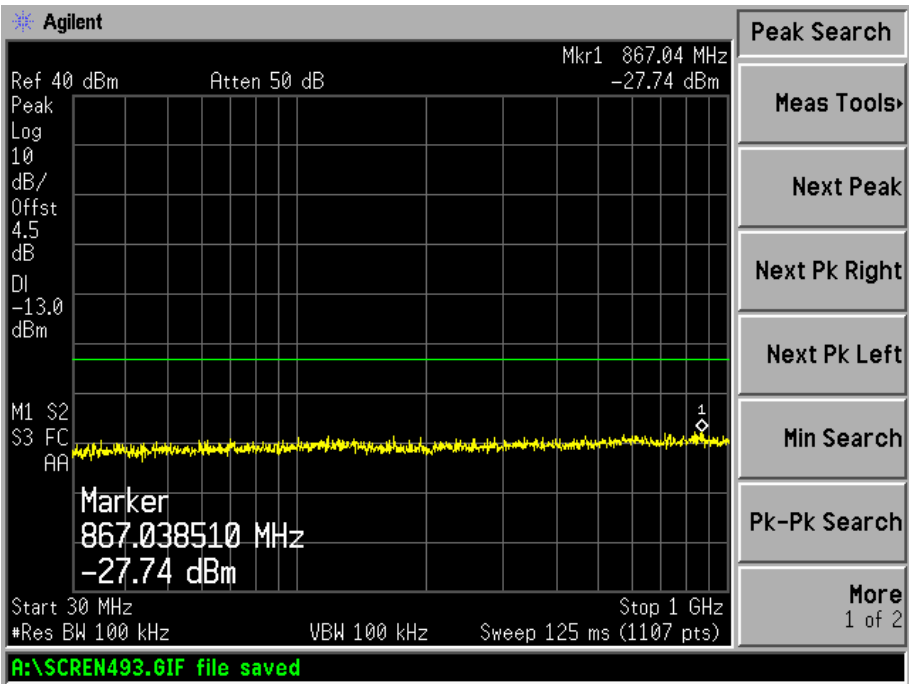
GSM Middle Channel
30MHz to 1GHz



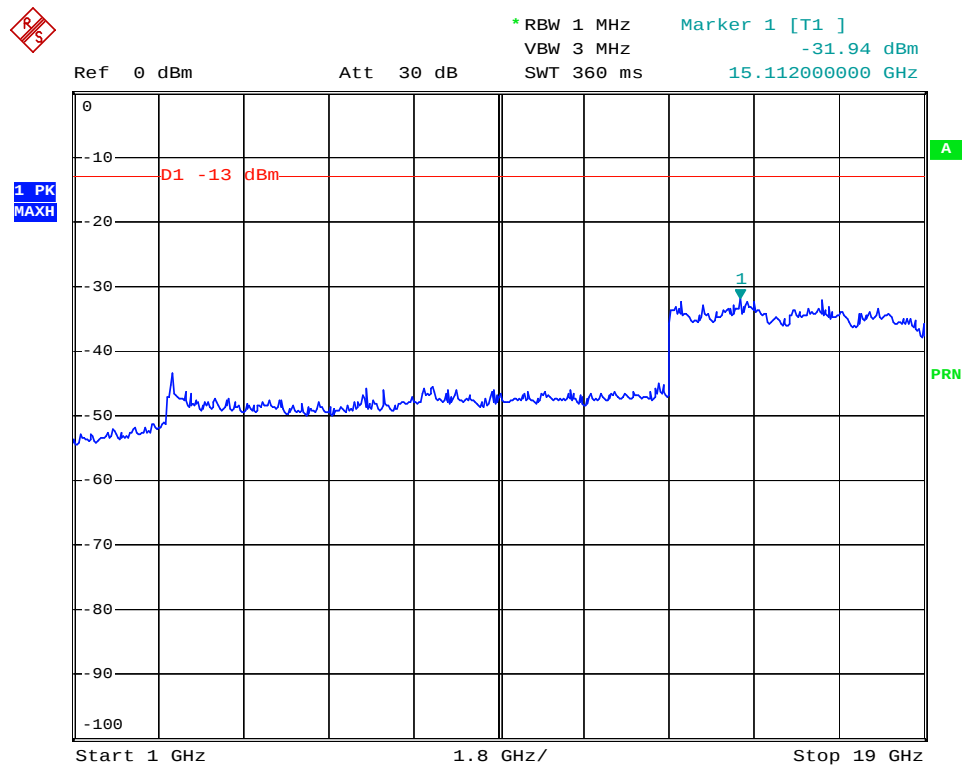
Above 1GHz



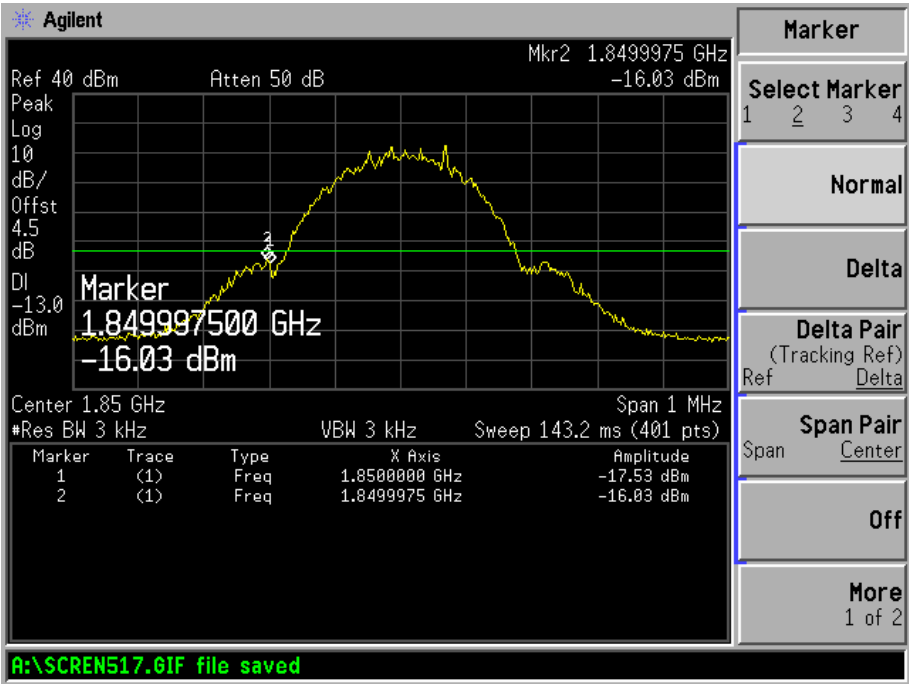
GSM High Channel
30MHz to 1GHz



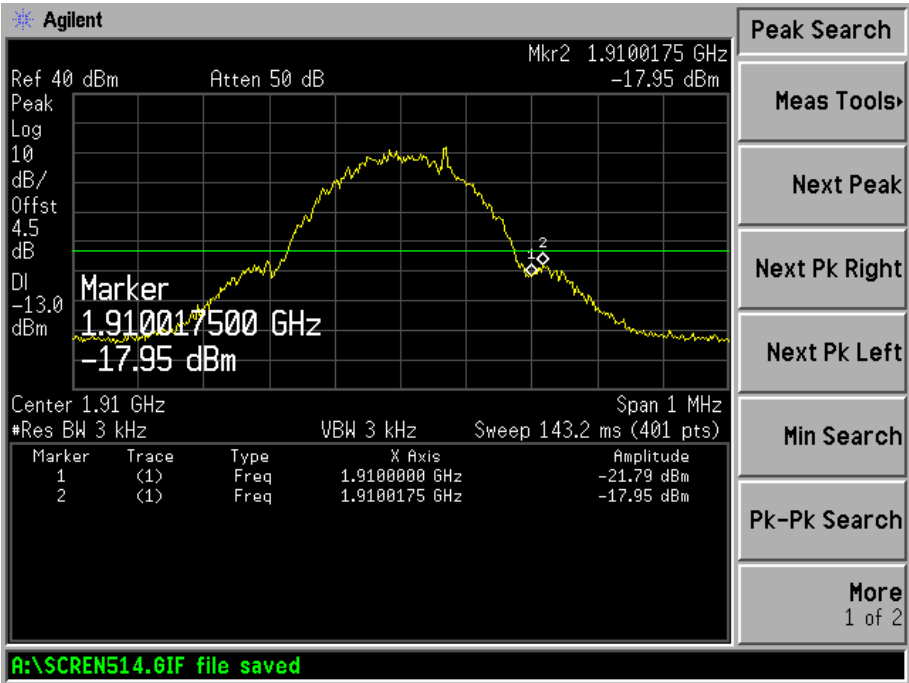
Above 1GHz



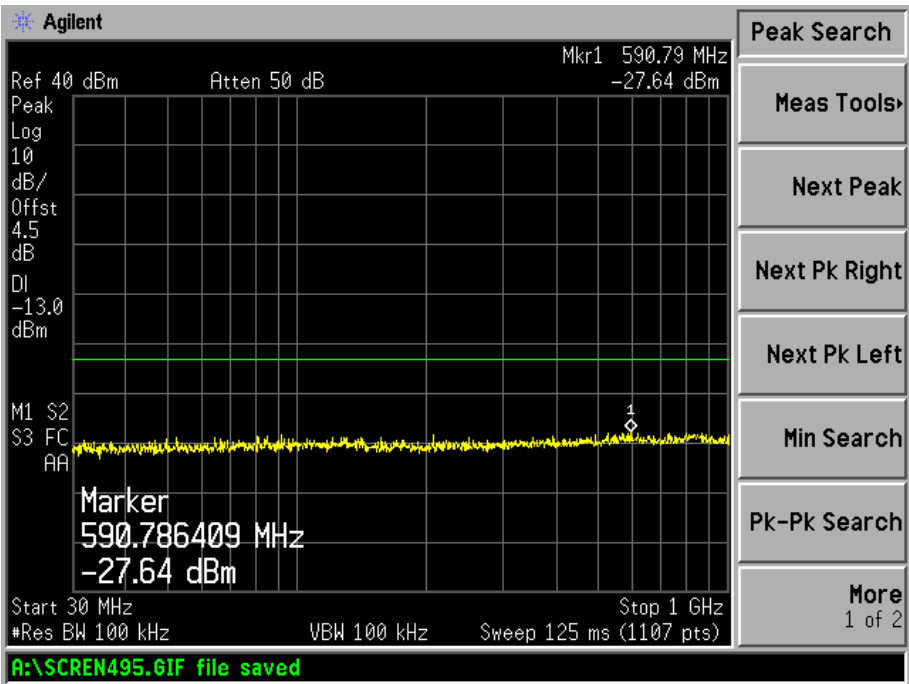
GSM Low Band Emission



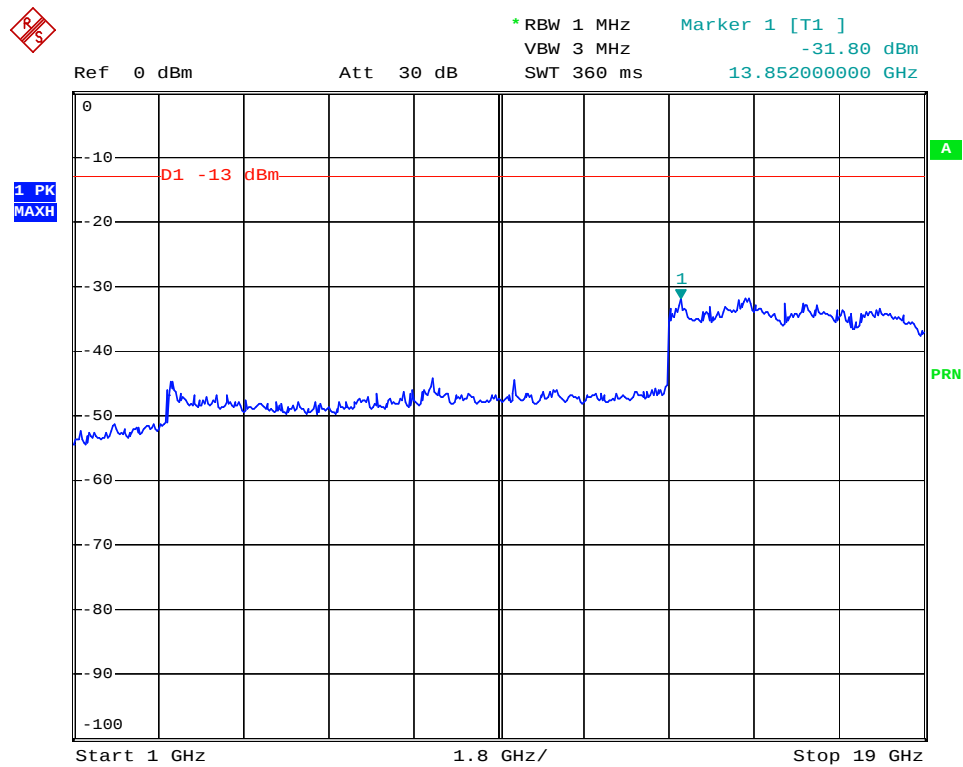
GSM High Band Emission



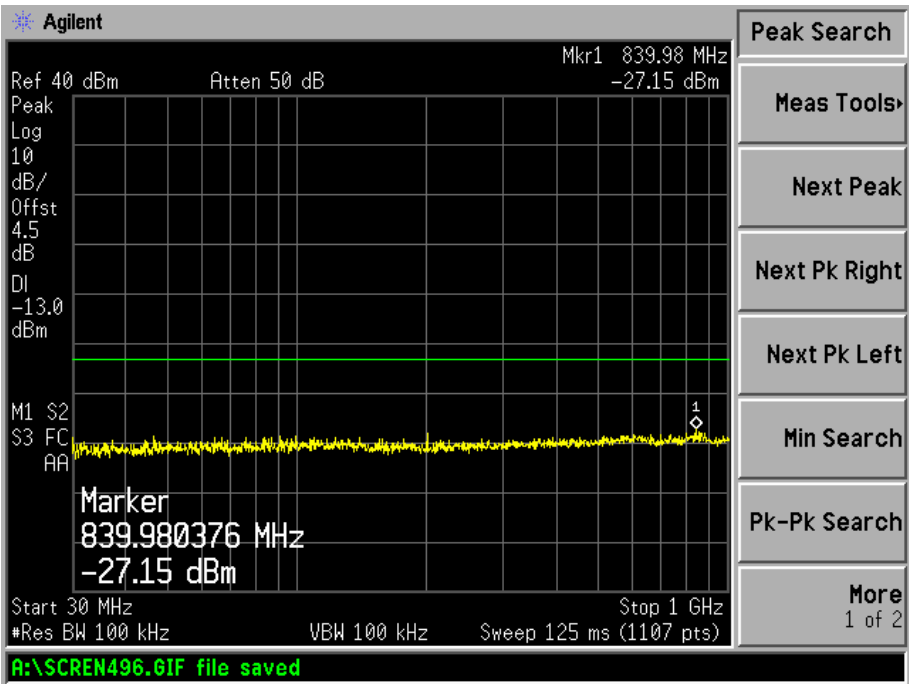
GPRS Low Channel
30MHz to 1GHz



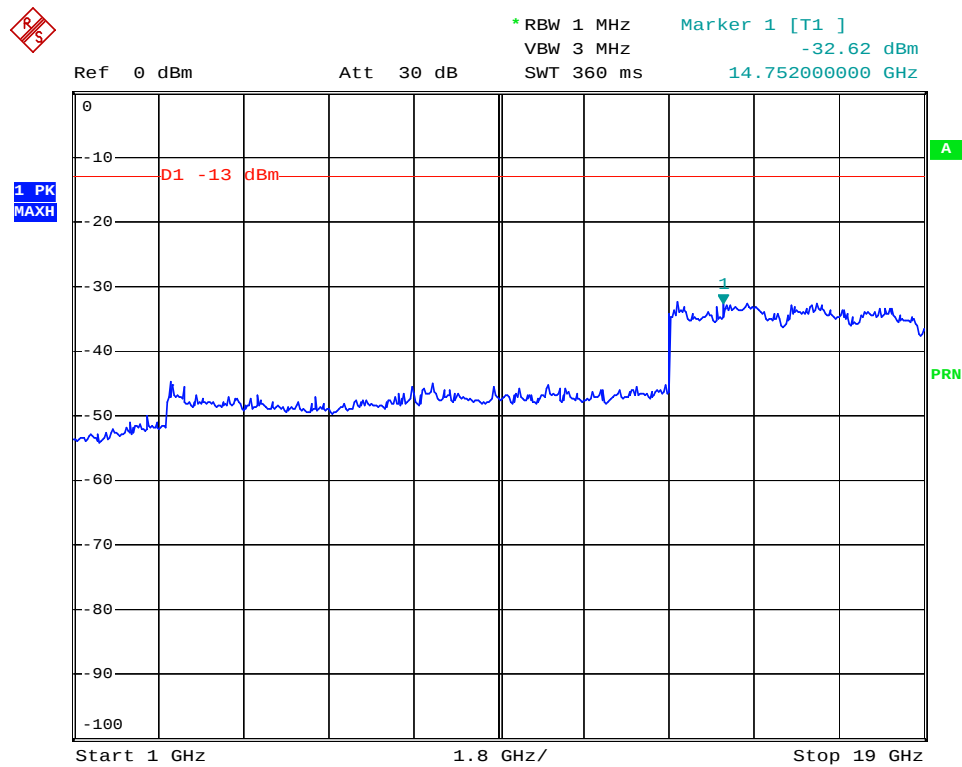
Above 1GHz



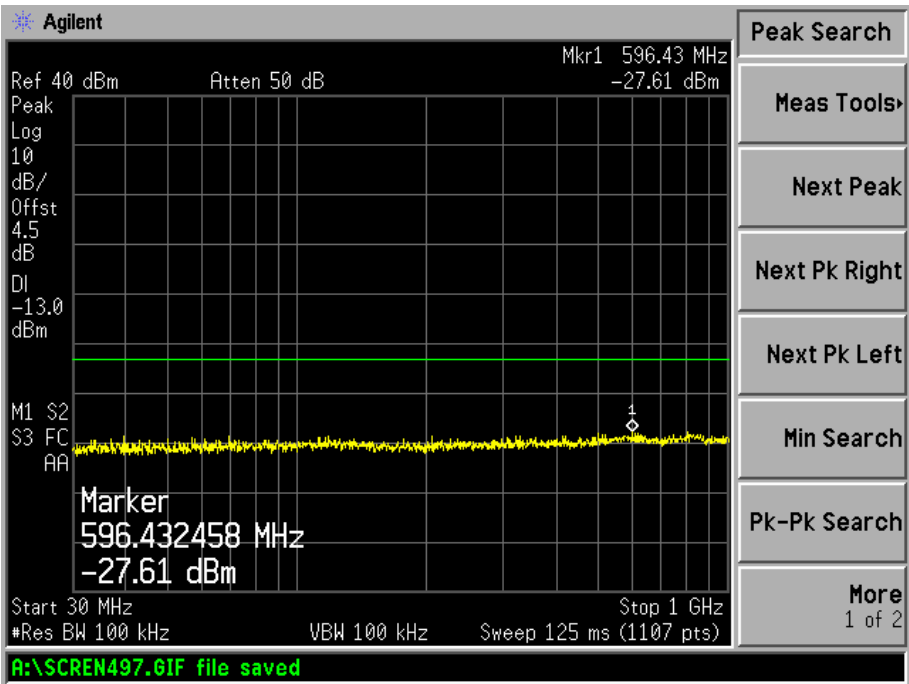
GPRS Middle Channel
30MHz to 1GHz



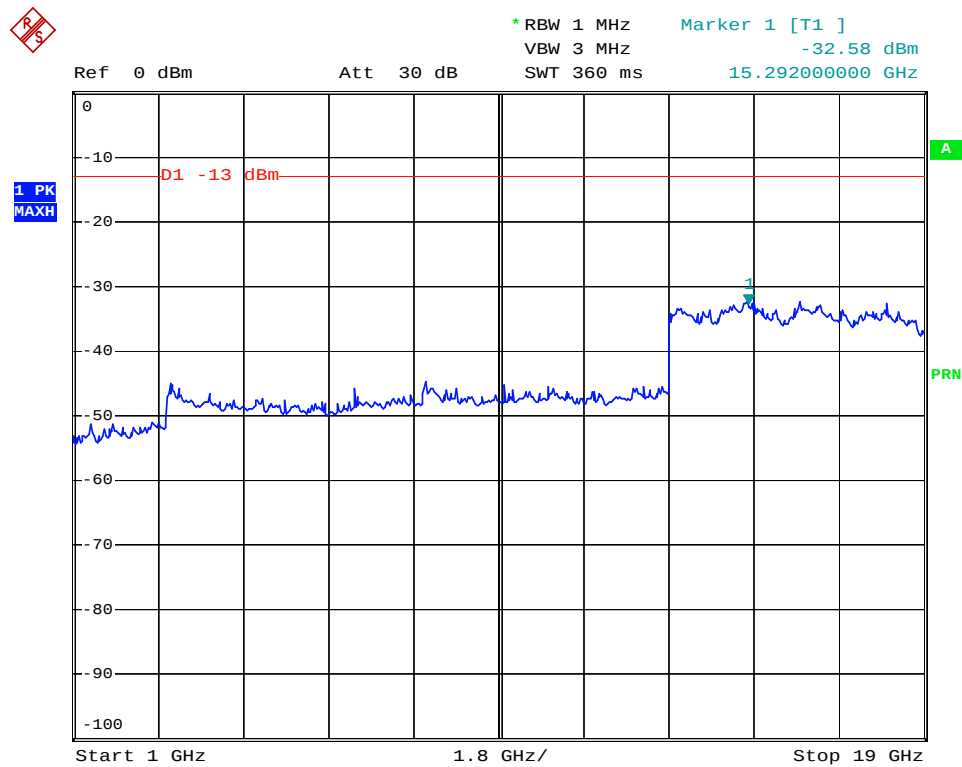
Above 1GHz



GPRS High Channel
30MHz to 1GHz



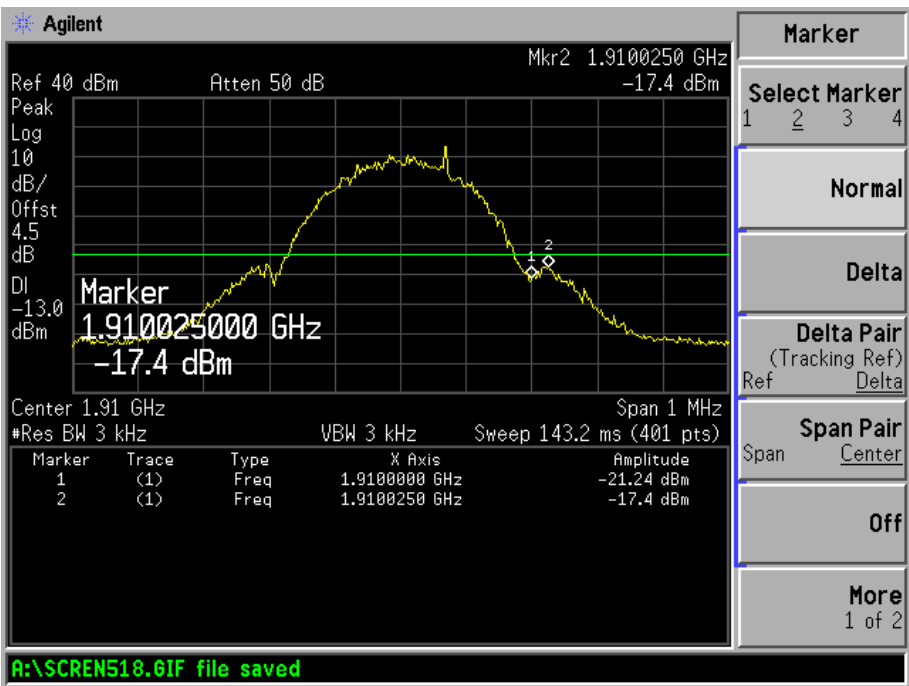
Above 1GHz



GPRS Low Band Emission



GPRS High Band Emission



7. Spurious Radiated Emissions

7.1 Measurement Uncertainty

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement is ± 5.20 dB.

7.2 Standard Applicable

According to §22.917(a), the power of any emissions 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.

According to §24.238(a), the power of any emissions 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.

7.3 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	R&S	FSP	836079/035	2012-03-28	2013-03-27
Pre-amplifier	Agilent	8447F	3113A06717	2012-03-28	2013-03-27
Pre-amplifier	Compliance Direction	PAP-0118	24002	2012-03-28	2013-03-27
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2012-02-25	2013-02-24
Horn Antenna	ETS	3117	00086197	2012-02-25	2013-02-24
Universal Radio Communication Tester	Rohde & Schwarz	CMU200	112012	2012-03-28	2013-03-27
Signal Generator	R&S	SMR20	100047	2012-03-28	2013-03-27

7.4 Test Procedure

1. The setup of EUT is according with per TIA/EIA Standard 603C and ANSI C63.4-2003 measurement procedure.
2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious attenuation limit in dB = $43 + 10 \log_{10}$ (power out in Watts)

7.5 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

7.6 Summary of Test Results/Plots

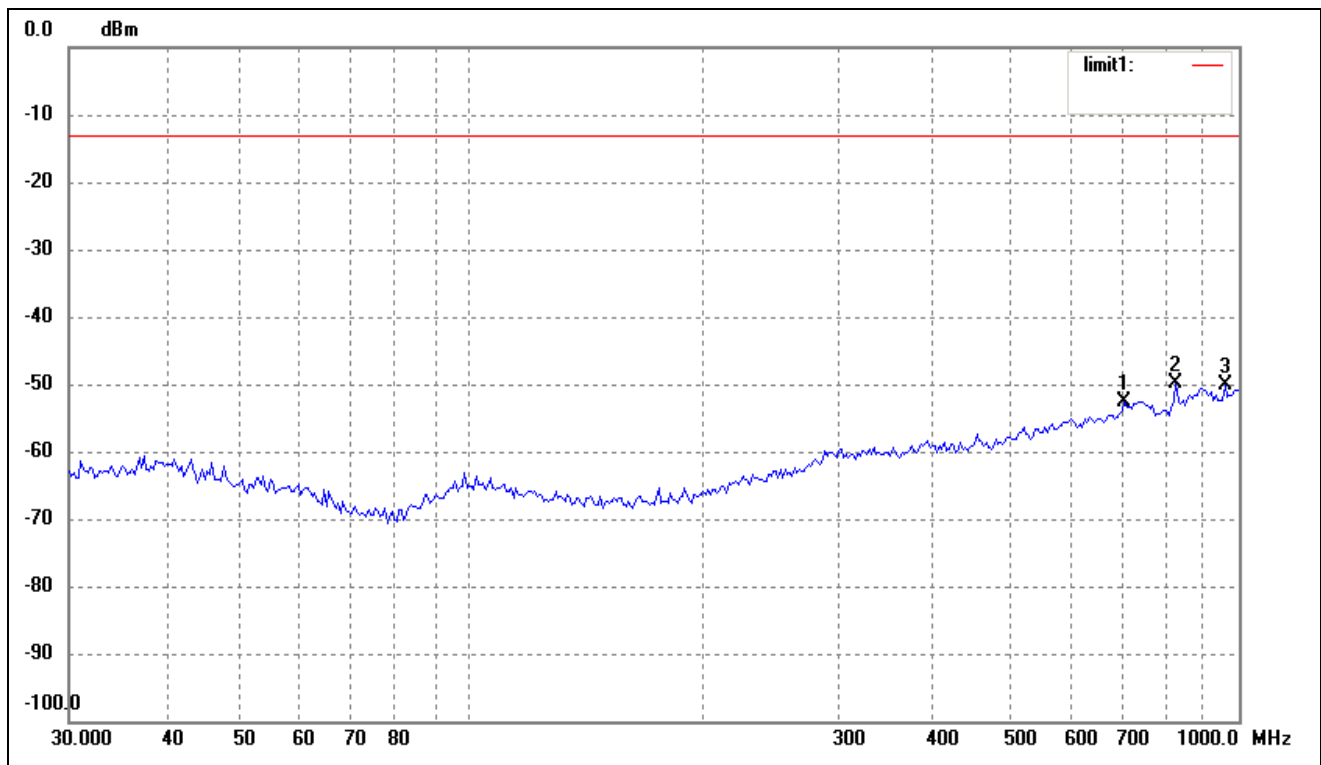
According to the data below, the FCC Part 22.917 and 24.238 standards, and had the worst margin of:

-29.57 dB at 11186.000 MHz in the Horizontal polarization for Cellular Band GSM Mode Middle channel, 30MHz to 18 GHz.

Spurious Emission From 30MHz to 1GHz

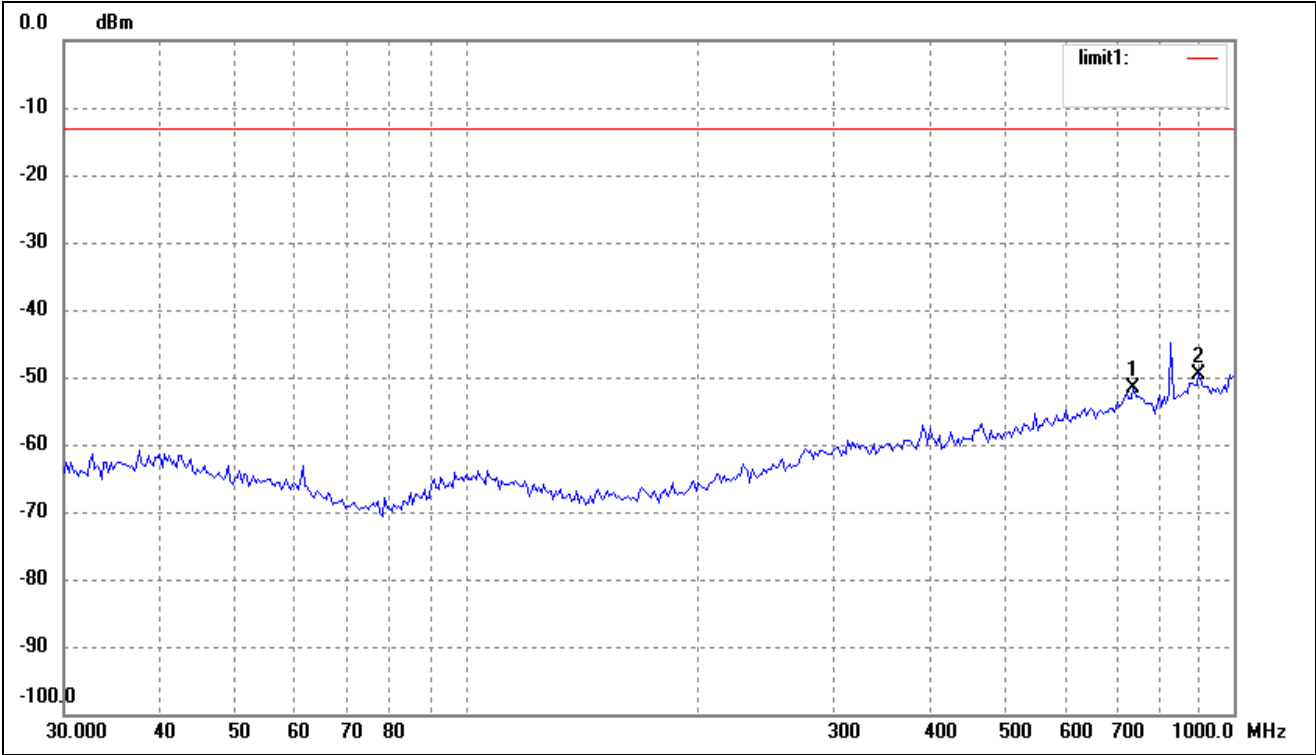
For Cellular Band_GSM Mode Low channel

Horizontal:



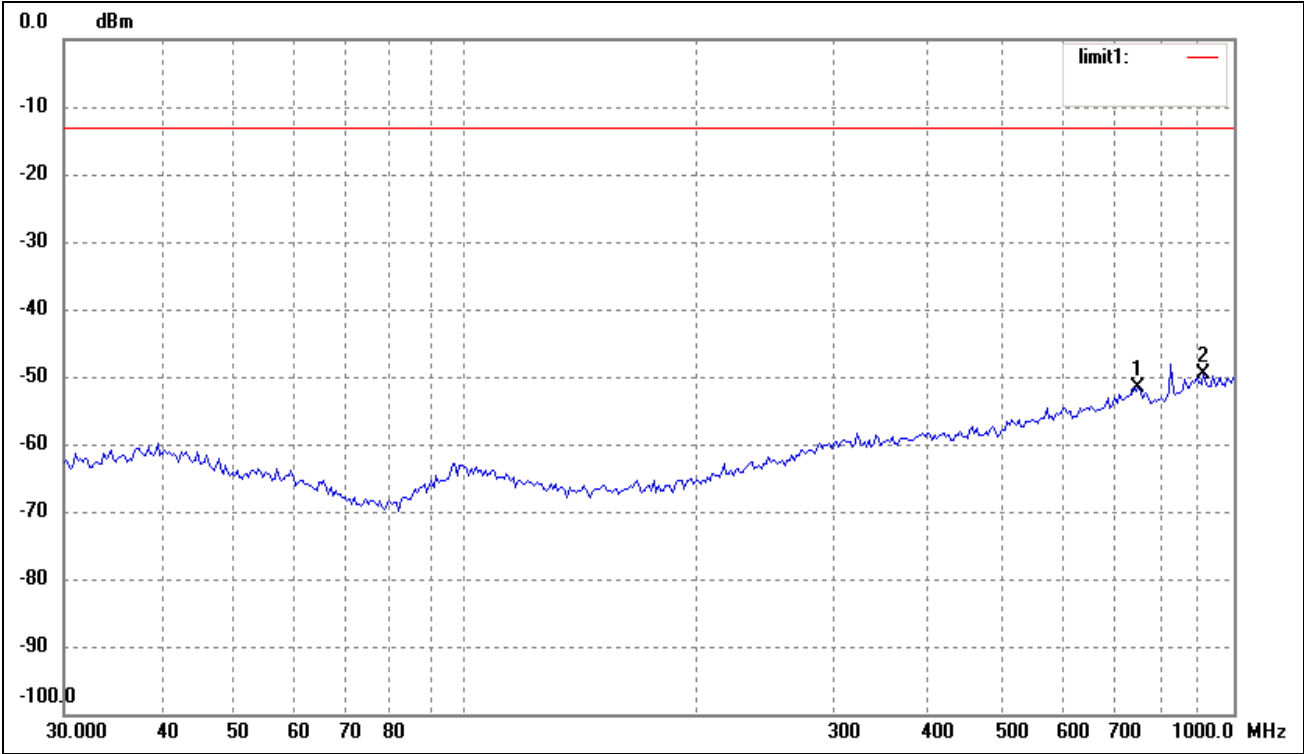
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	709.1823	-68.88	16.15	-52.73	-13.00	-39.73	ERP
2	827.4934	-66.77	16.98	-49.79	-13.00	-36.79	ERP
3	958.7943	-68.40	18.16	-50.24	-13.00	-37.24	ERP

Vertical:



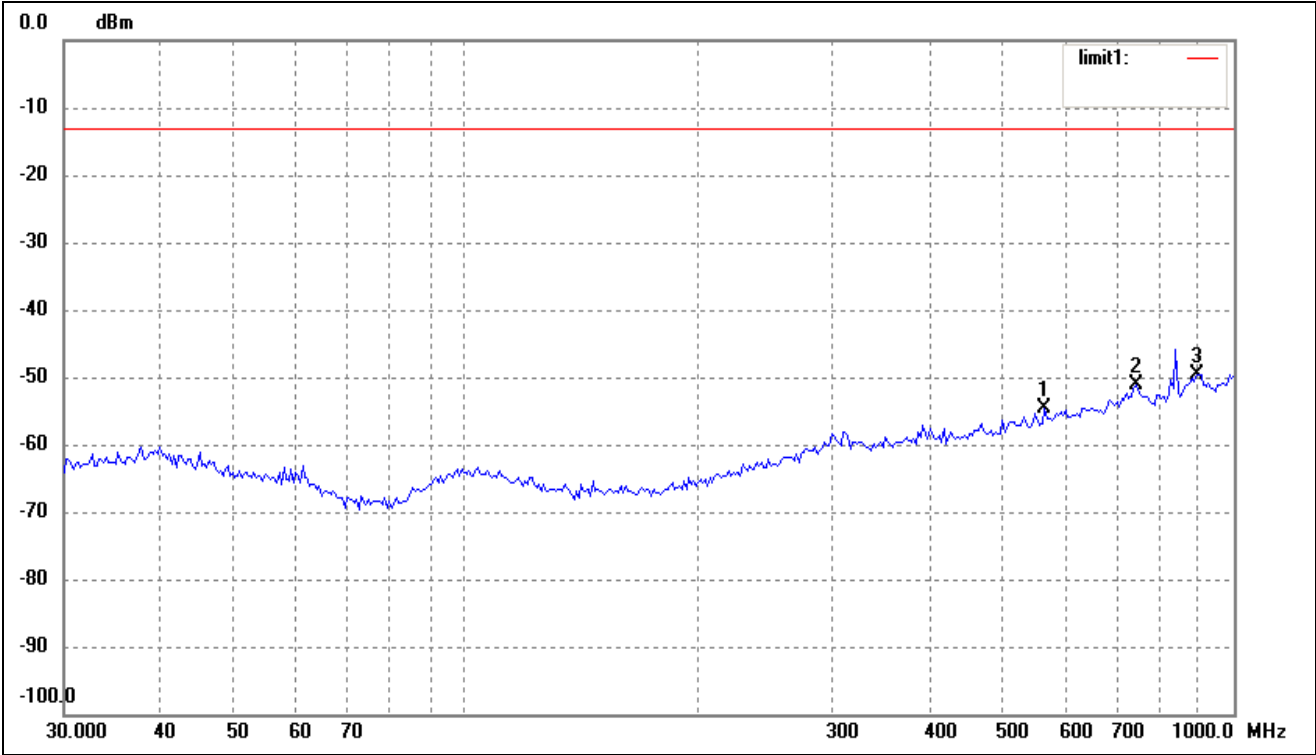
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	739.6605	-69.74	18.07	-51.67	-13.00	-38.67	ERP
2	900.1474	-68.92	19.38	-49.54	-13.00	-36.54	ERP

For Cellular Band_GSM Mode Middle channel
Horizontal:



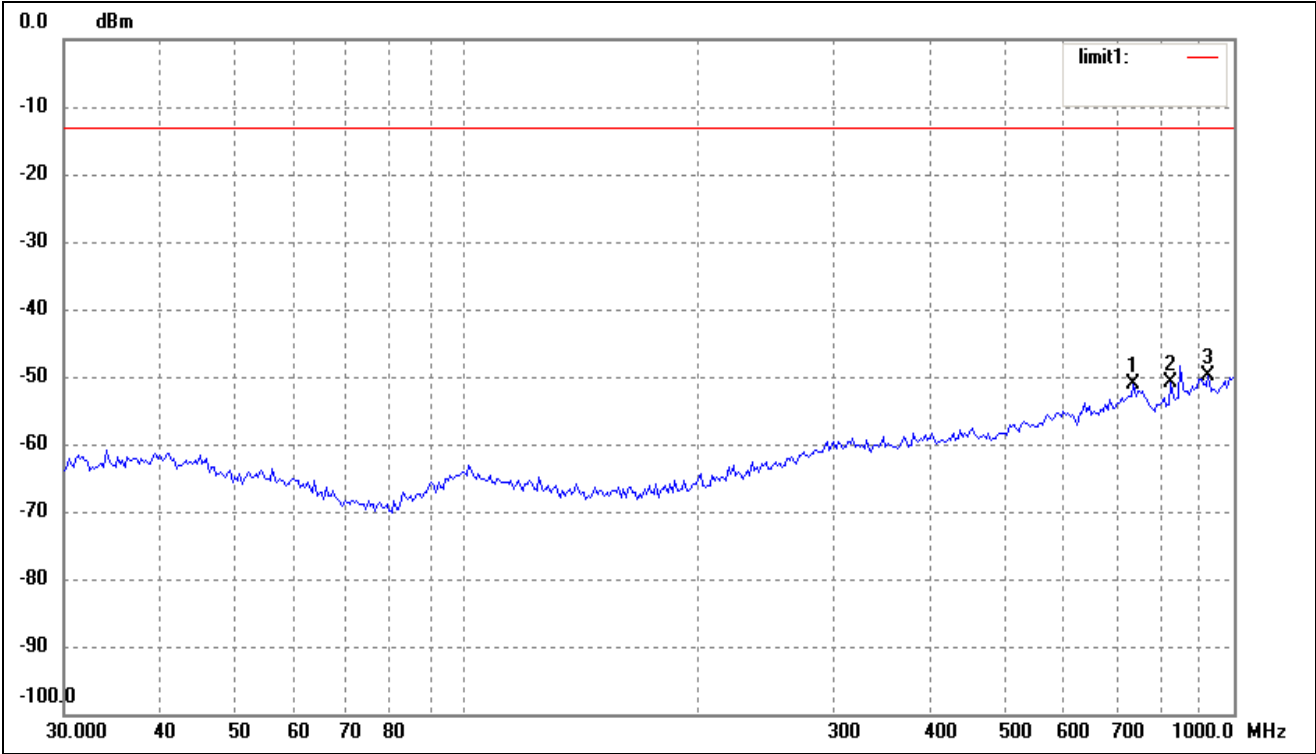
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	750.1083	-69.30	17.78	-51.52	-13.00	-38.52	ERP
2	912.8620	-68.56	18.93	-49.63	-13.00	-36.63	ERP

Vertical:



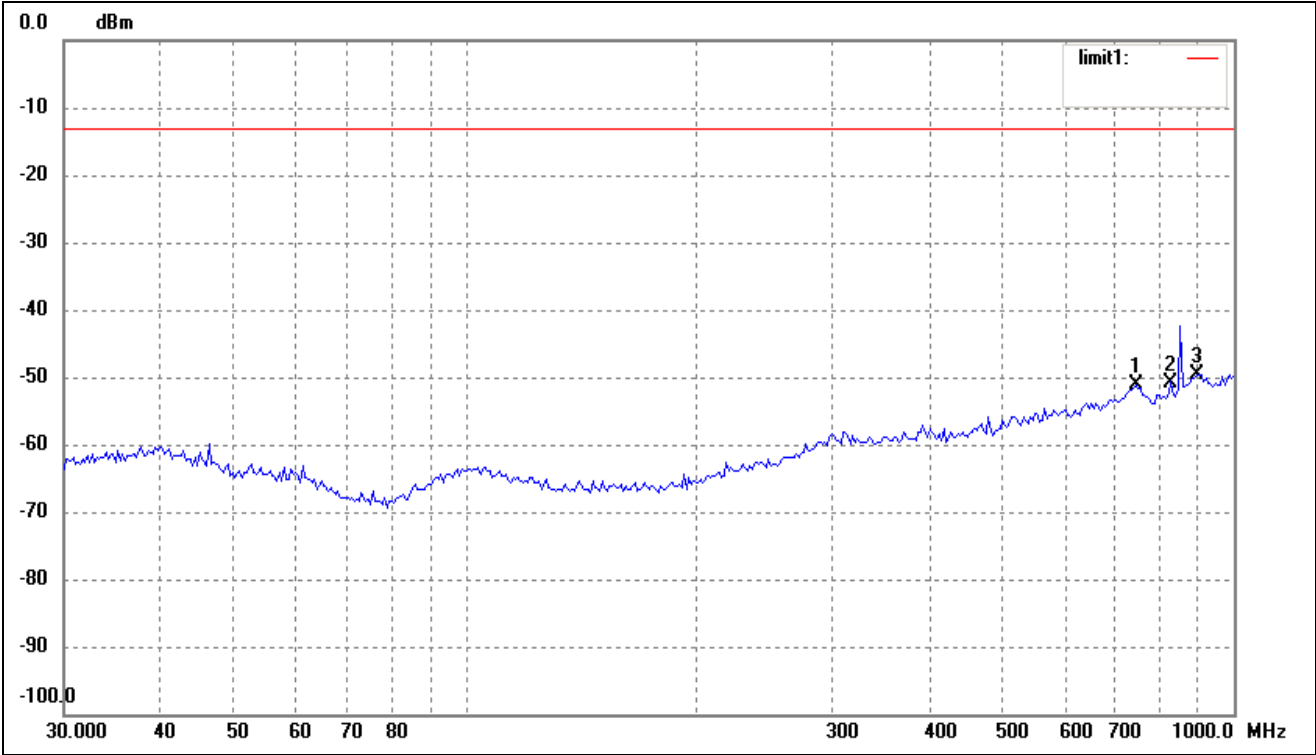
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	566.6223	-68.16	13.58	-54.58	-13.00	-41.58	ERP
2	744.8661	-69.05	17.95	-51.10	-13.00	-38.10	ERP
3	893.8567	-68.78	19.27	-49.51	-13.00	-36.51	ERP

For Cellular Band_GSM Mode High channel
Horizontal:



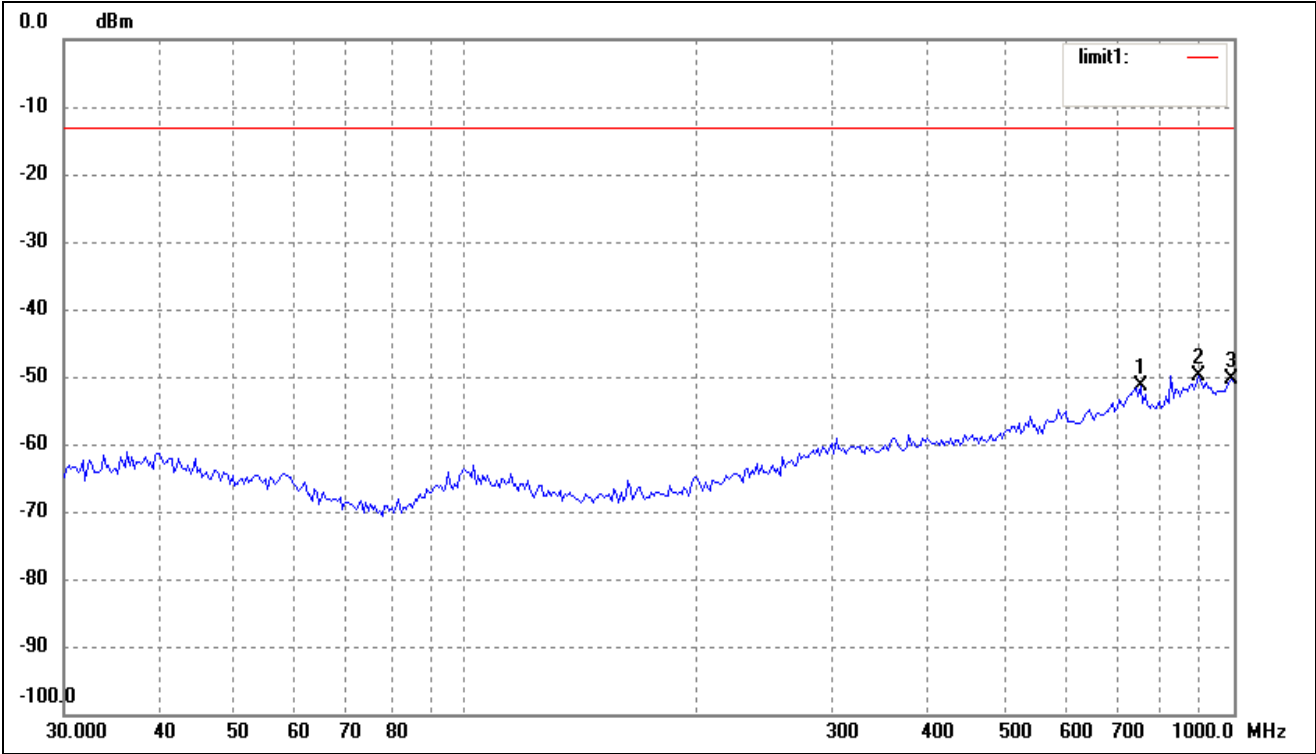
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	739.6605	-69.23	18.07	-51.16	-13.00	-38.16	ERP
2	827.4934	-67.93	16.98	-50.95	-13.00	-37.95	ERP
3	925.7563	-68.37	18.49	-49.88	-13.00	-36.88	ERP

Vertical:



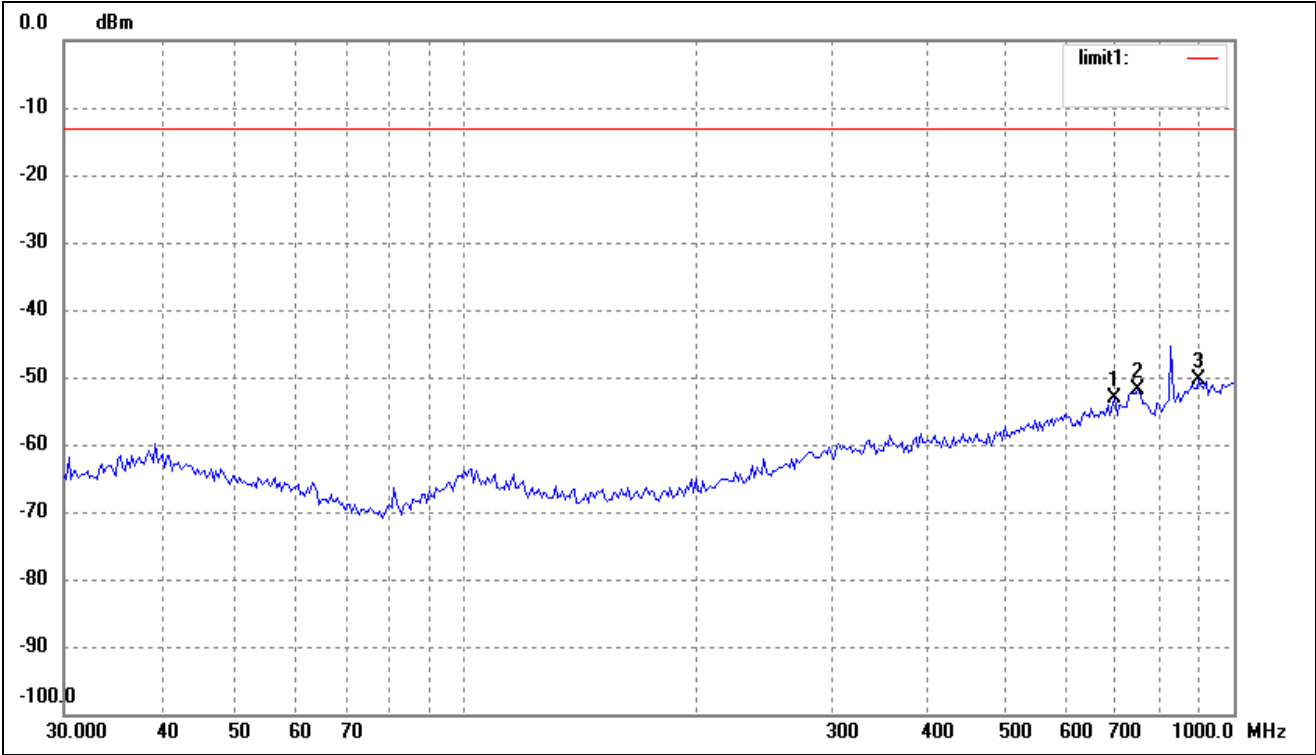
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Degree ()	Height (cm)	Remark
1	744.8661	-69.05	17.95	-51.10	-13.00	-38.10			peak
2	827.4934	-67.73	16.98	-50.75	-13.00	-37.75			peak
3	893.8567	-68.78	19.27	-49.51	-13.00	-36.51			peak

For Cellular Band_GPRS Mode Low channel
Horizontal:



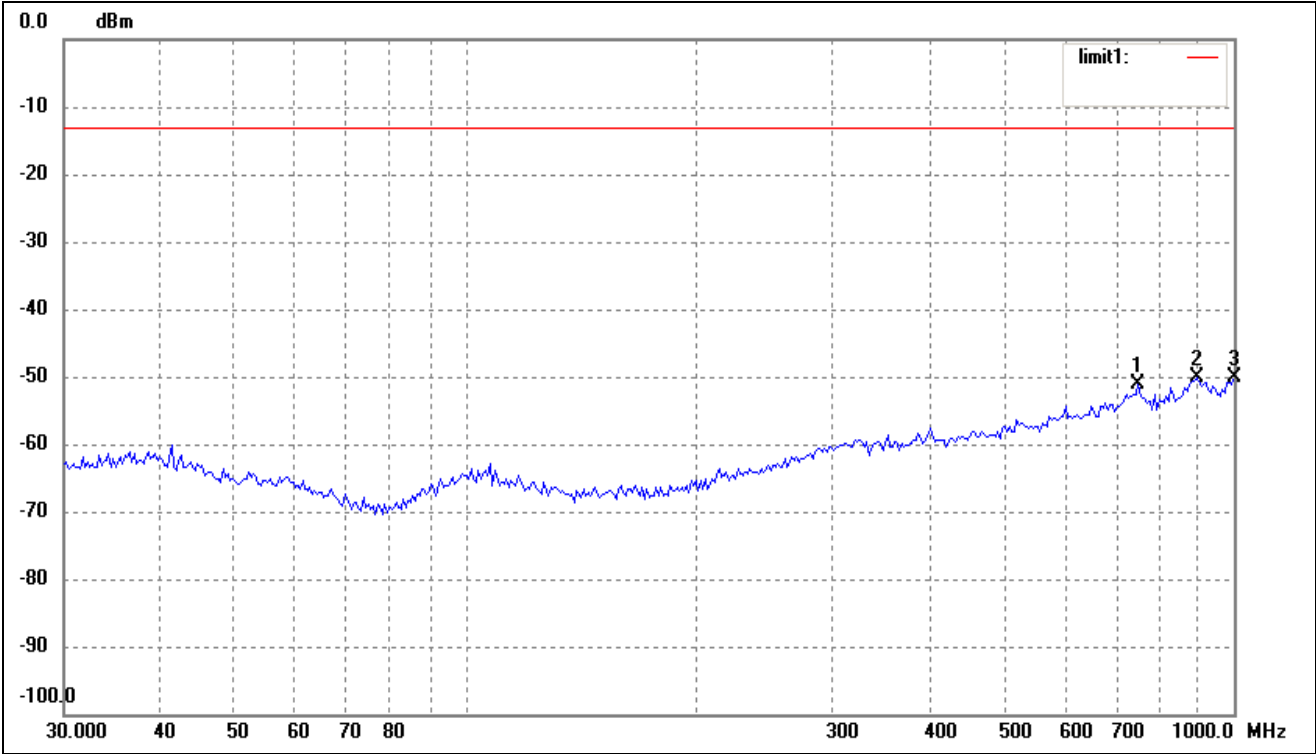
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	755.3873	-68.94	17.48	-51.46	-13.00	-38.46	ERP
2	900.1474	-69.22	19.38	-49.84	-13.00	-36.84	ERP
3	993.0114	-69.90	19.53	-50.37	-13.00	-37.37	ERP

Vertical:



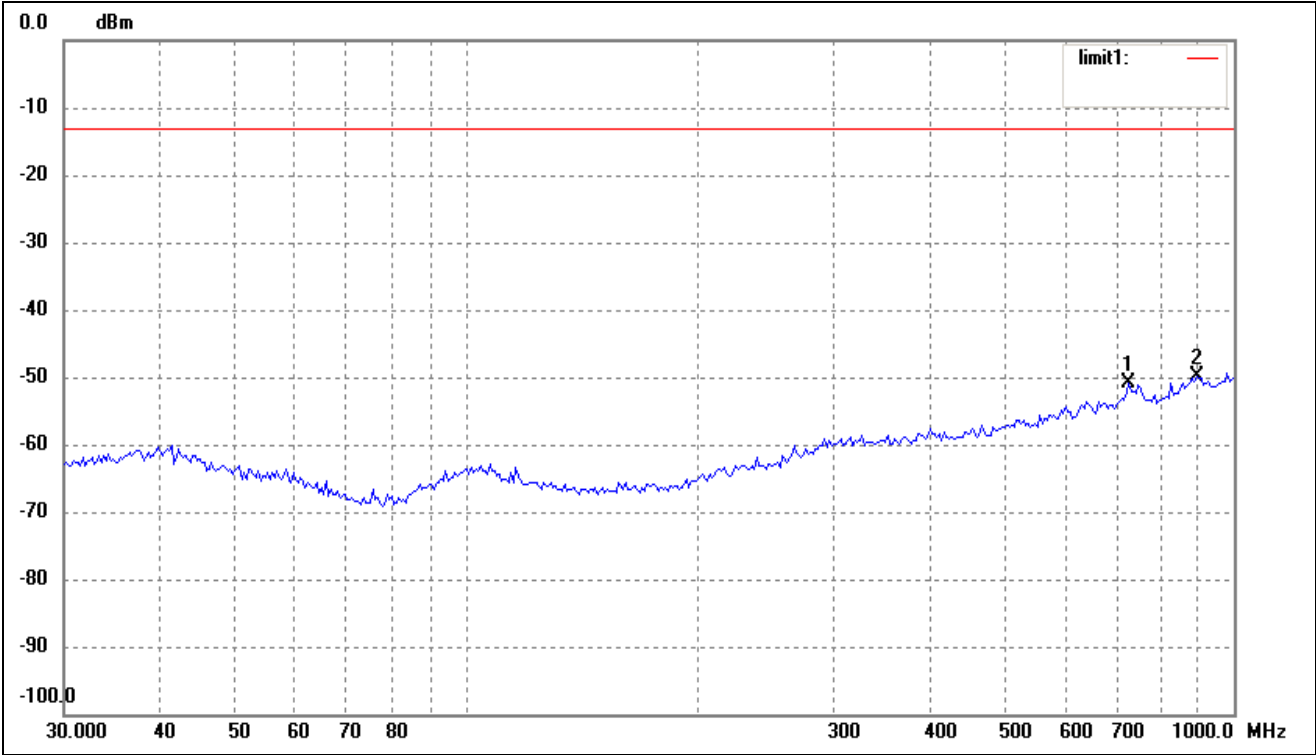
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	699.3046	-68.95	15.73	-53.22	-13.00	-40.22	ERP
2	750.1083	-69.66	17.78	-51.88	-13.00	-38.88	ERP
3	900.1474	-69.87	19.38	-50.49	-13.00	-37.49	ERP

For Cellular Band_GPRS Mode Middle channel
Horizontal:



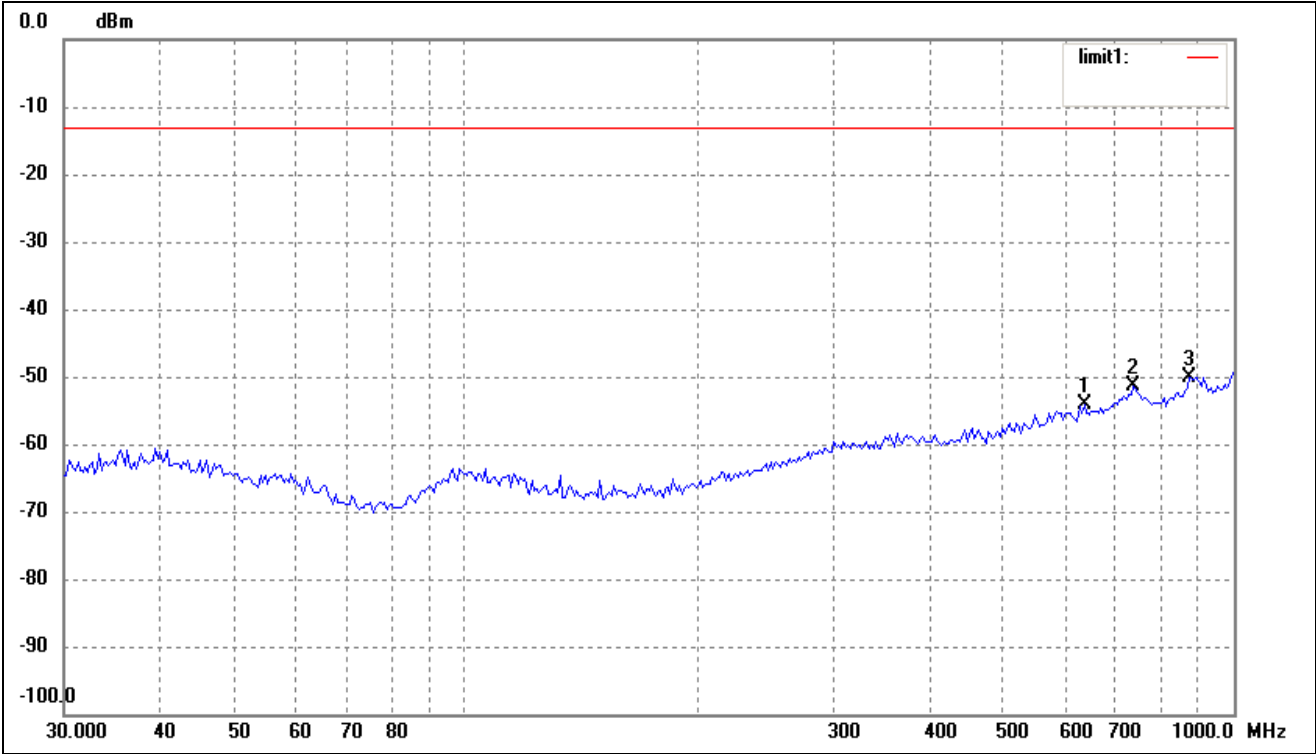
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	750.1083	-69.02	17.78	-51.24	-13.00	-38.24	ERP
2	893.8567	-69.41	19.27	-50.14	-13.00	-37.14	ERP
3	1000.0000	-70.06	19.90	-50.16	-13.00	-37.16	ERP

Vertical:



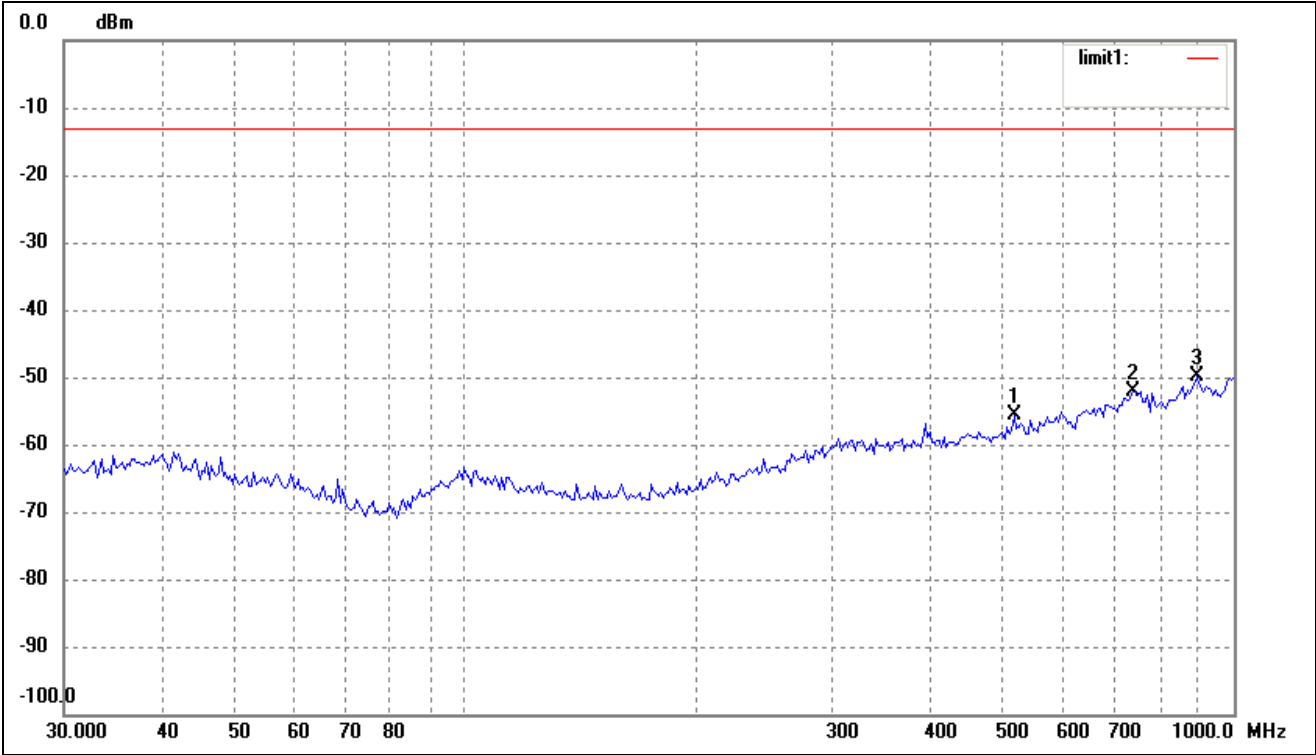
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	729.3583	-68.13	17.31	-50.82	-13.00	-37.82	ERP
2	893.8567	-69.23	19.27	-49.96	-13.00	-36.96	ERP

For Cellular Band_GPRS Mode High channel
Horizontal:



No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	638.3686	-69.25	15.03	-54.22	-13.00	-41.22	ERP
2	739.6605	-69.56	18.07	-51.49	-13.00	-38.49	ERP
3	875.2470	-68.81	18.80	-50.01	-13.00	-37.01	ERP

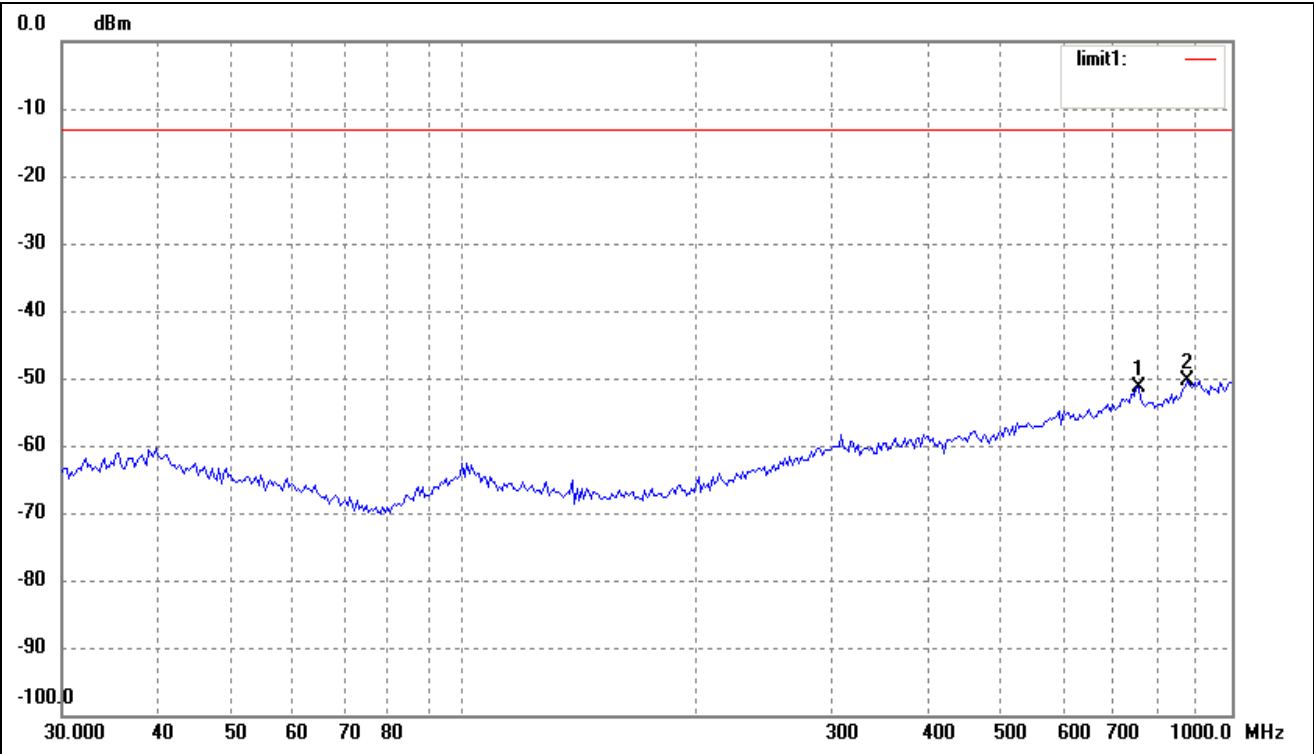
Vertical:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	517.2480	-68.33	12.82	-55.51	-13.00	-42.51	ERP
2	739.6605	-70.18	18.07	-52.11	-13.00	-39.11	ERP
3	893.8567	-69.14	19.27	-49.87	-13.00	-36.87	ERP

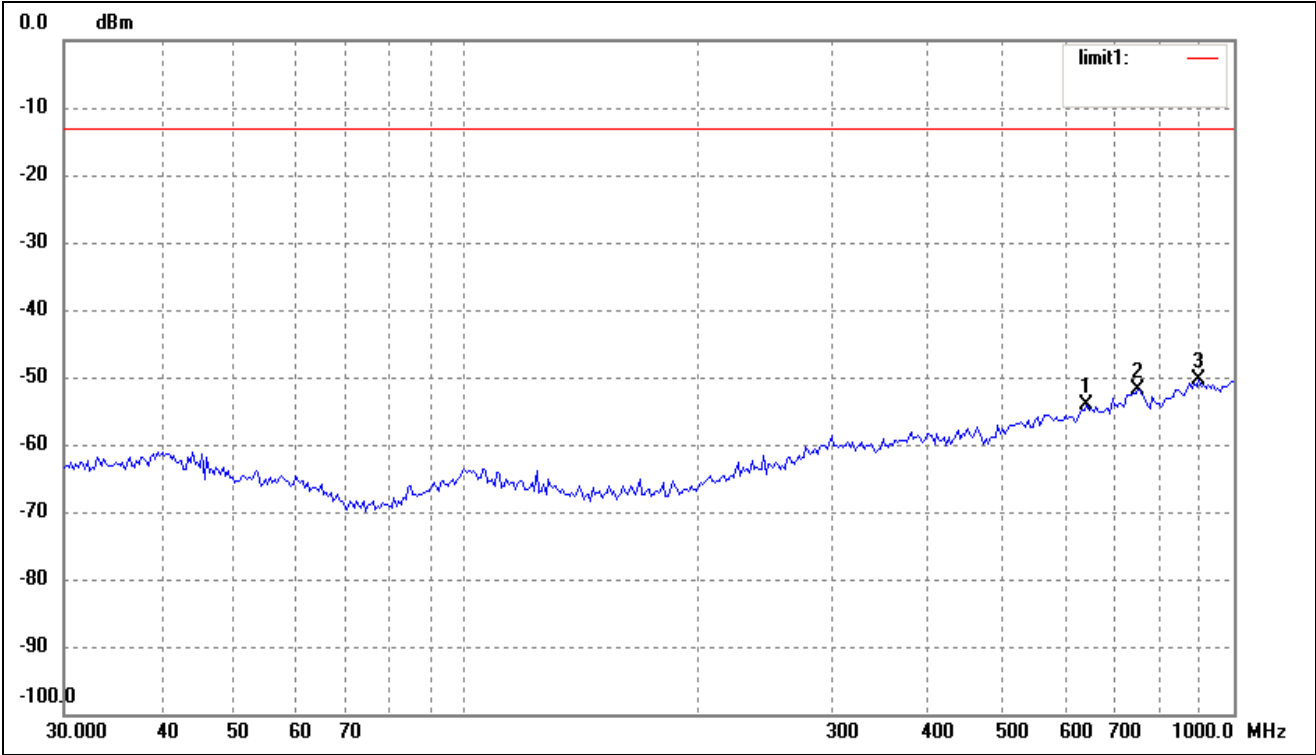
For PCS Band_GSM Mode Low channel

Horizontal:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	755.3873	-68.74	17.48	-51.26	-13.00	-38.26	ERP
2	875.2470	-69.07	18.80	-50.27	-13.00	-37.27	ERP

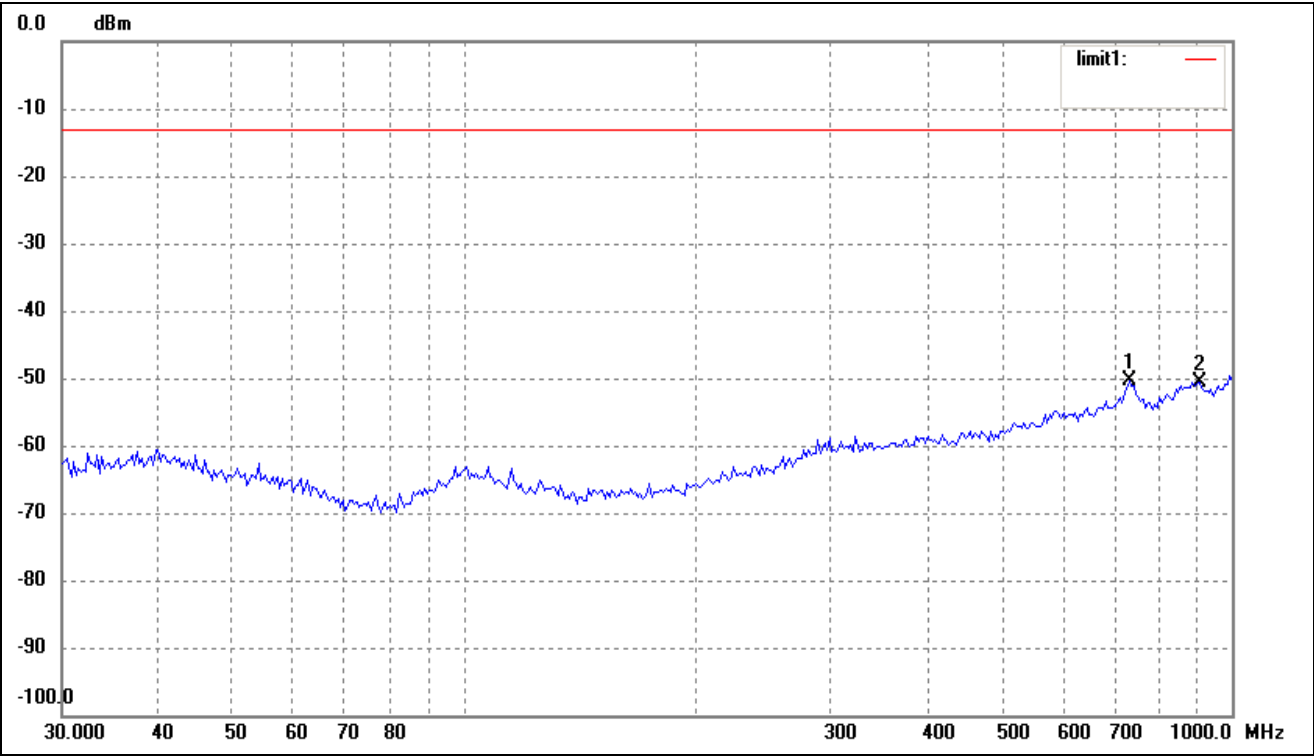
Vertical:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	642.8613	-69.33	15.14	-54.19	-13.00	-41.19	ERP
2	750.1083	-69.53	17.78	-51.75	-13.00	-38.75	ERP
3	900.1474	-69.66	19.38	-50.28	-13.00	-37.28	ERP

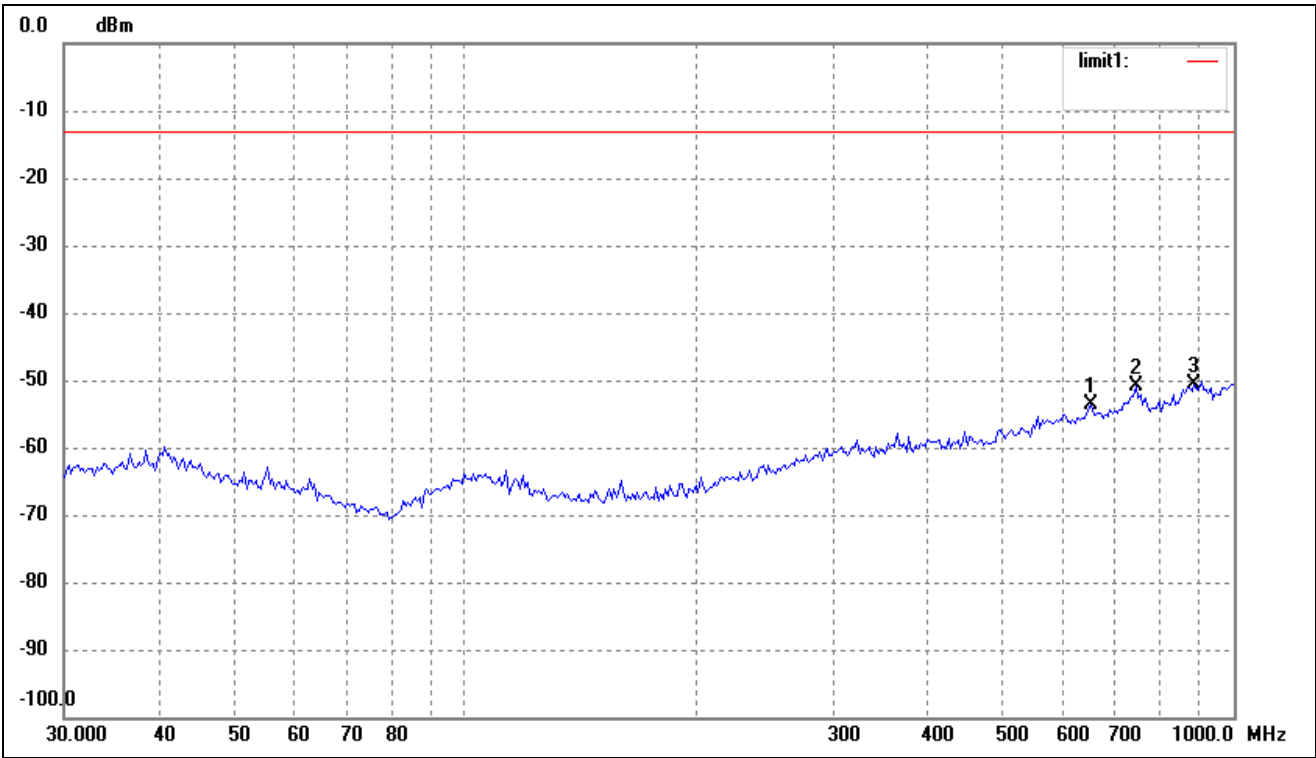
For PCS Band_GSM Mode Middle channel

Horizontal:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	734.4913	-67.95	17.68	-50.27	-13.00	-37.27	ERP
2	906.4824	-69.71	19.15	-50.56	-13.00	-37.56	ERP

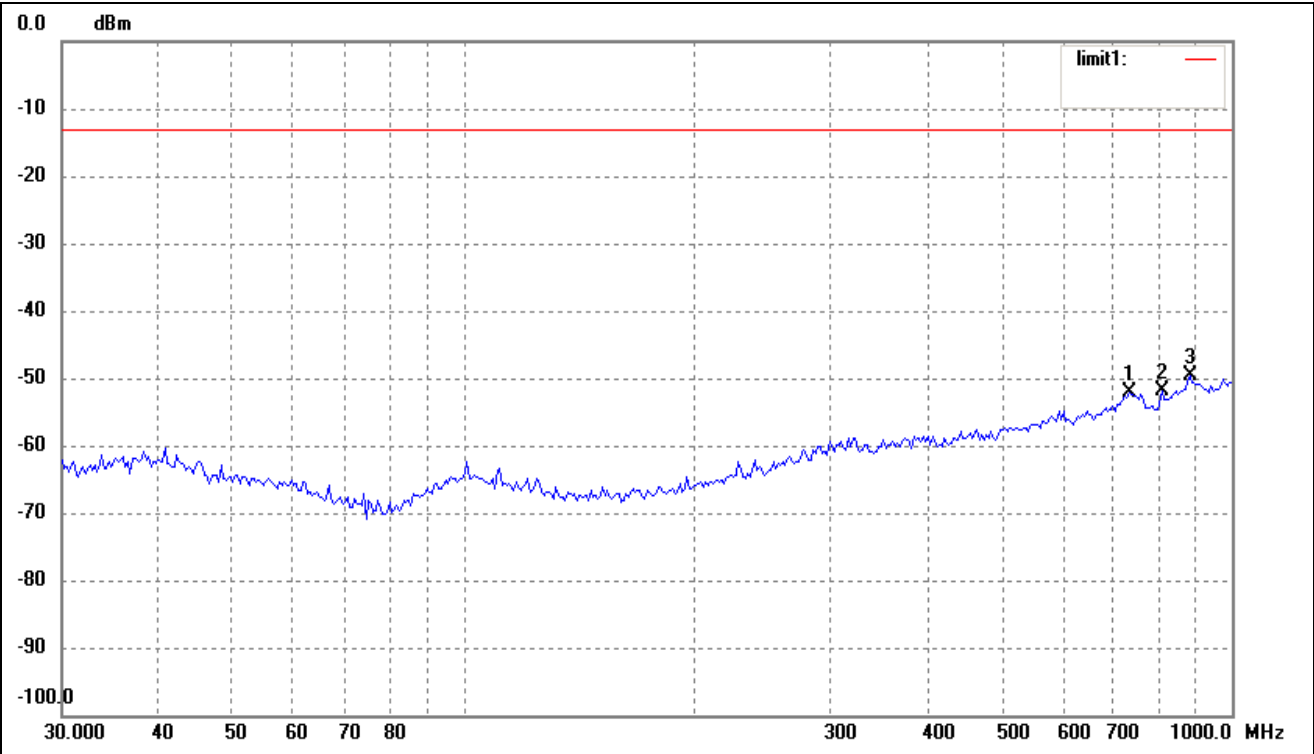
Vertical:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	651.9417	-68.77	15.07	-53.70	-13.00	-40.70	ERP
2	744.8661	-68.90	17.95	-50.95	-13.00	-37.95	ERP
3	887.6099	-69.84	19.15	-50.69	-13.00	-37.69	ERP

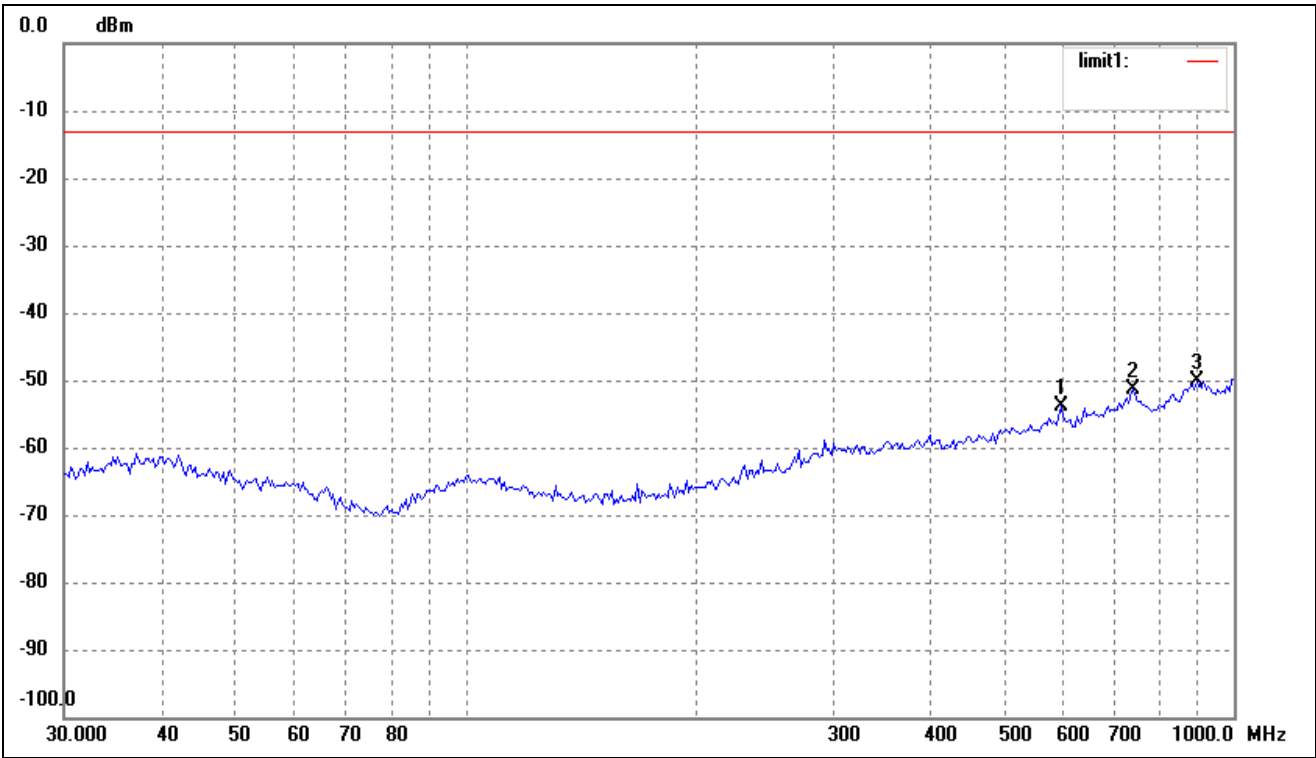
For PCS Band_GSM Mode High channel

Horizontal:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	734.4913	-69.89	17.68	-52.21	-13.00	-39.21	ERP
2	810.2654	-68.49	16.56	-51.93	-13.00	-38.93	ERP
3	881.4067	-68.64	19.03	-49.61	-13.00	-36.61	ERP

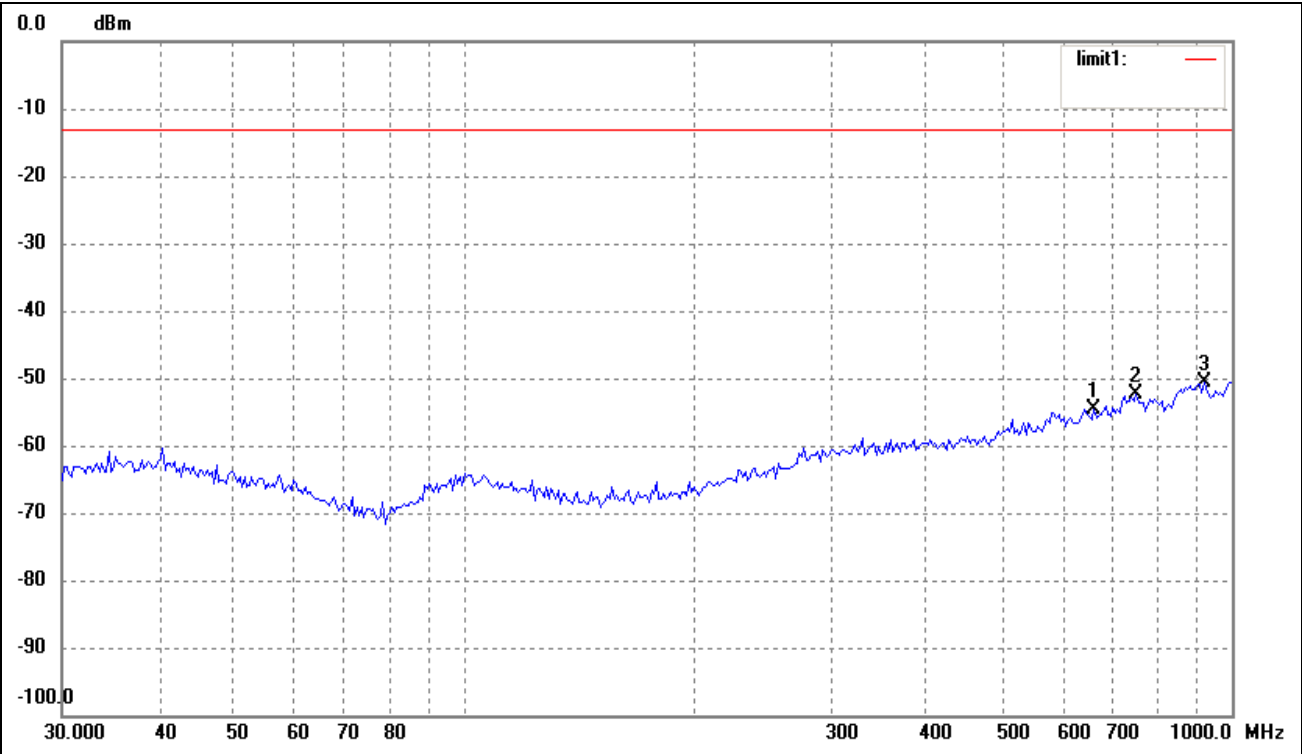
Vertical:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	595.1329	-68.60	14.63	-53.97	-13.00	-40.97	ERP
2	739.6605	-69.50	18.07	-51.43	-13.00	-38.43	ERP
3	893.8567	-69.41	19.27	-50.14	-13.00	-37.14	ERP

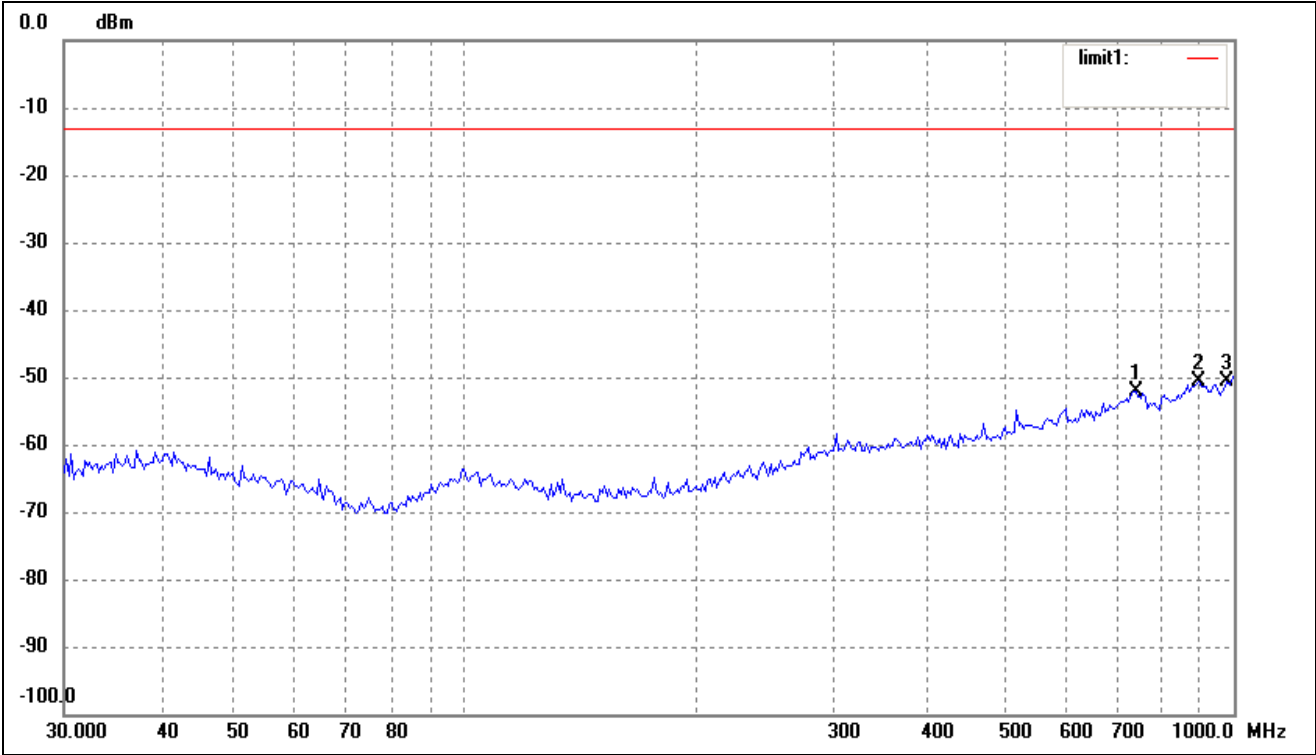
For PCS Band_GPRS Mode Low channel

Horizontal:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	661.1505	-69.42	14.80	-54.62	-13.00	-41.62	ERP
2	750.1083	-70.08	17.78	-52.30	-13.00	-39.30	ERP
3	919.2866	-69.44	18.70	-50.74	-13.00	-37.74	ERP

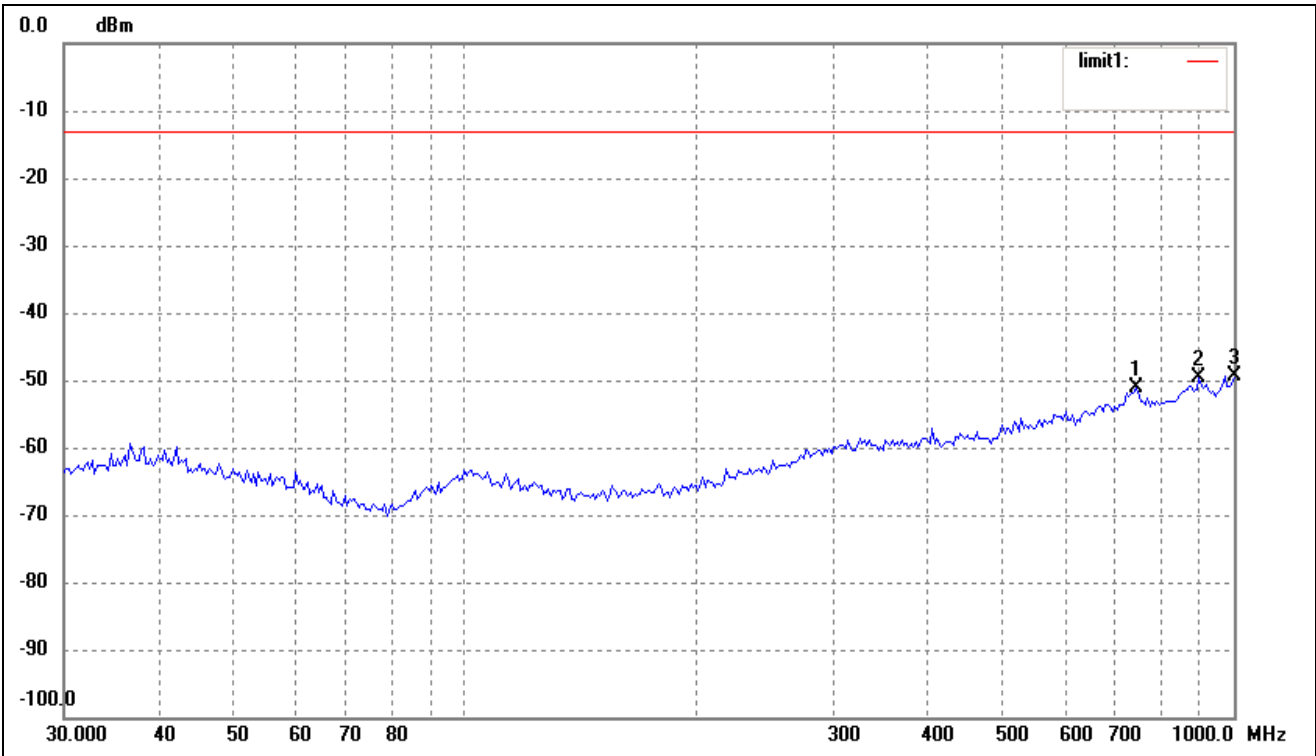
Vertical:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	744.8661	-70.04	17.95	-52.09	-13.00	-39.09	ERP
2	900.1474	-69.96	19.38	-50.58	-13.00	-37.58	ERP
3	979.1804	-69.45	18.82	-50.63	-13.00	-37.63	ERP

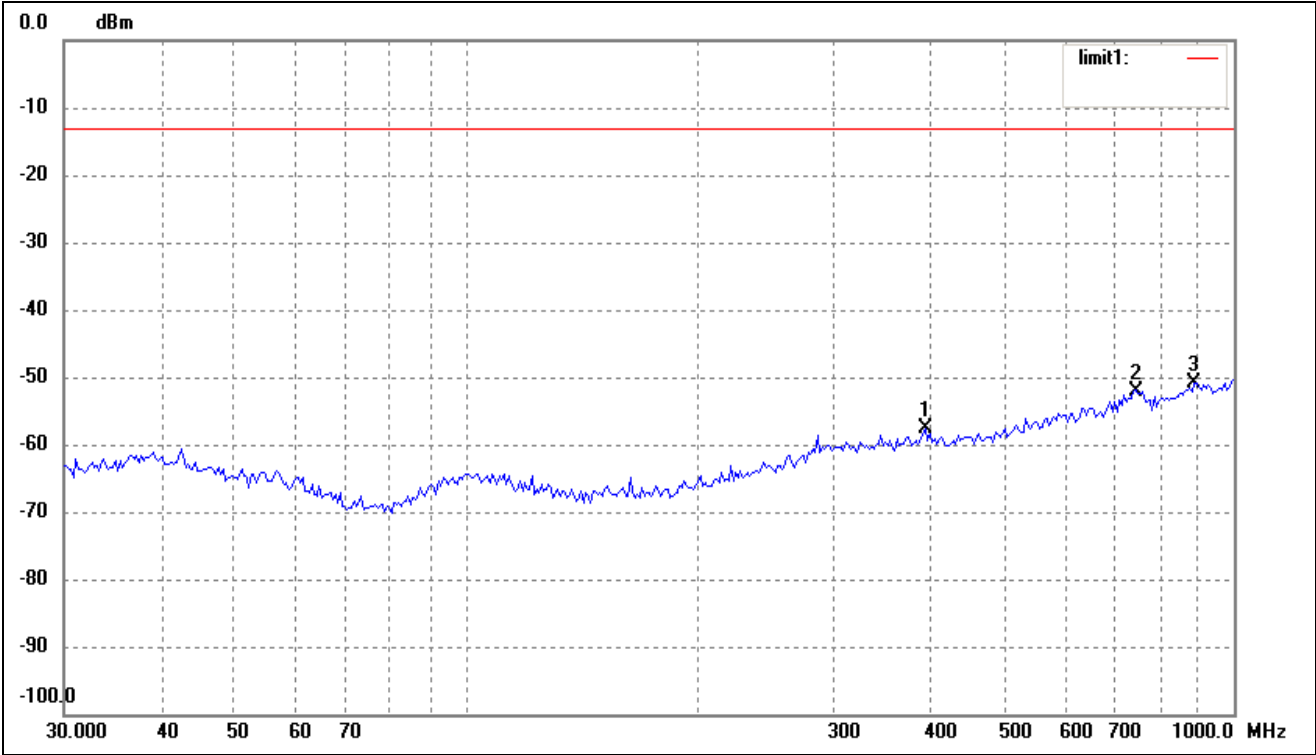
For PCS Band_GPRS Mode Middle channel

Horizontal:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	744.8661	-69.01	17.95	-51.06	-13.00	-38.06	ERP
2	900.1474	-68.92	19.38	-49.54	-13.00	-36.54	ERP
3	1000.0000	-69.20	19.90	-49.30	-13.00	-36.30	ERP

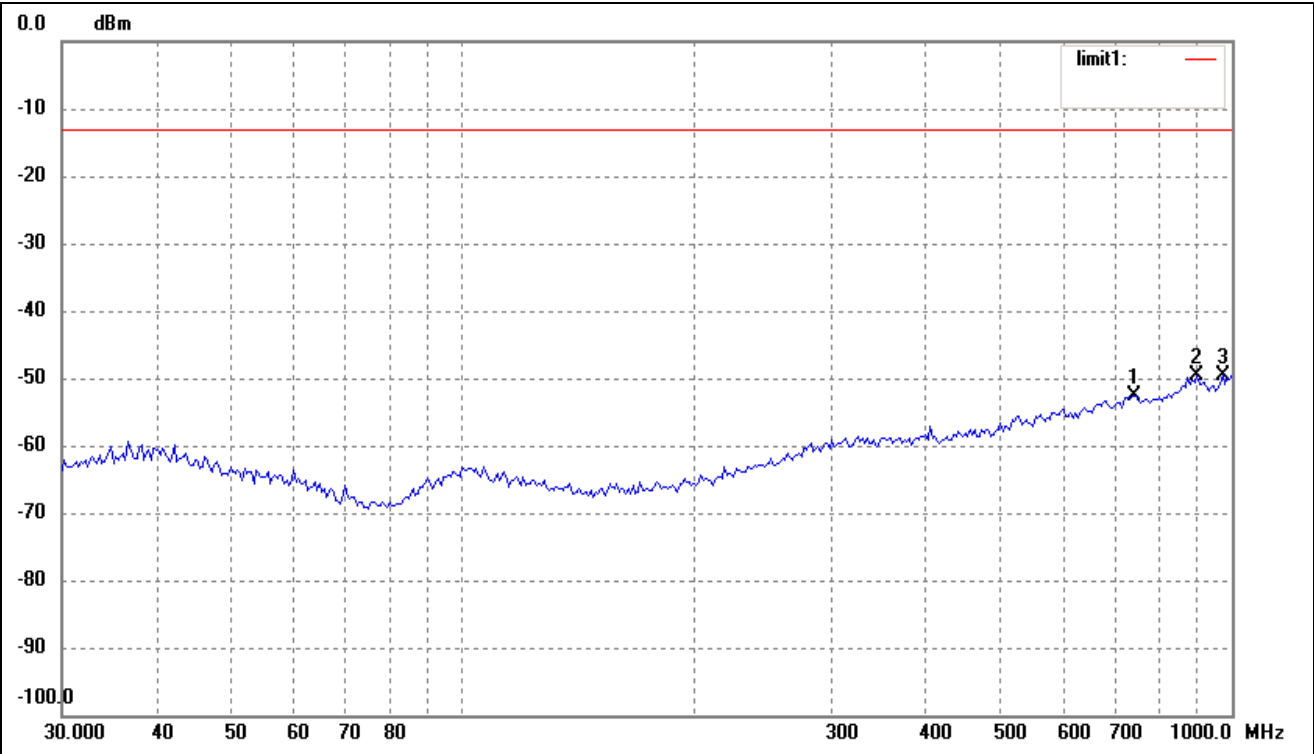
Vertical:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	396.2415	-68.94	11.37	-57.57	-13.00	-44.57	ERP
2	744.8661	-69.95	17.95	-52.00	-13.00	-39.00	ERP
3	887.6099	-70.01	19.15	-50.86	-13.00	-37.86	ERP

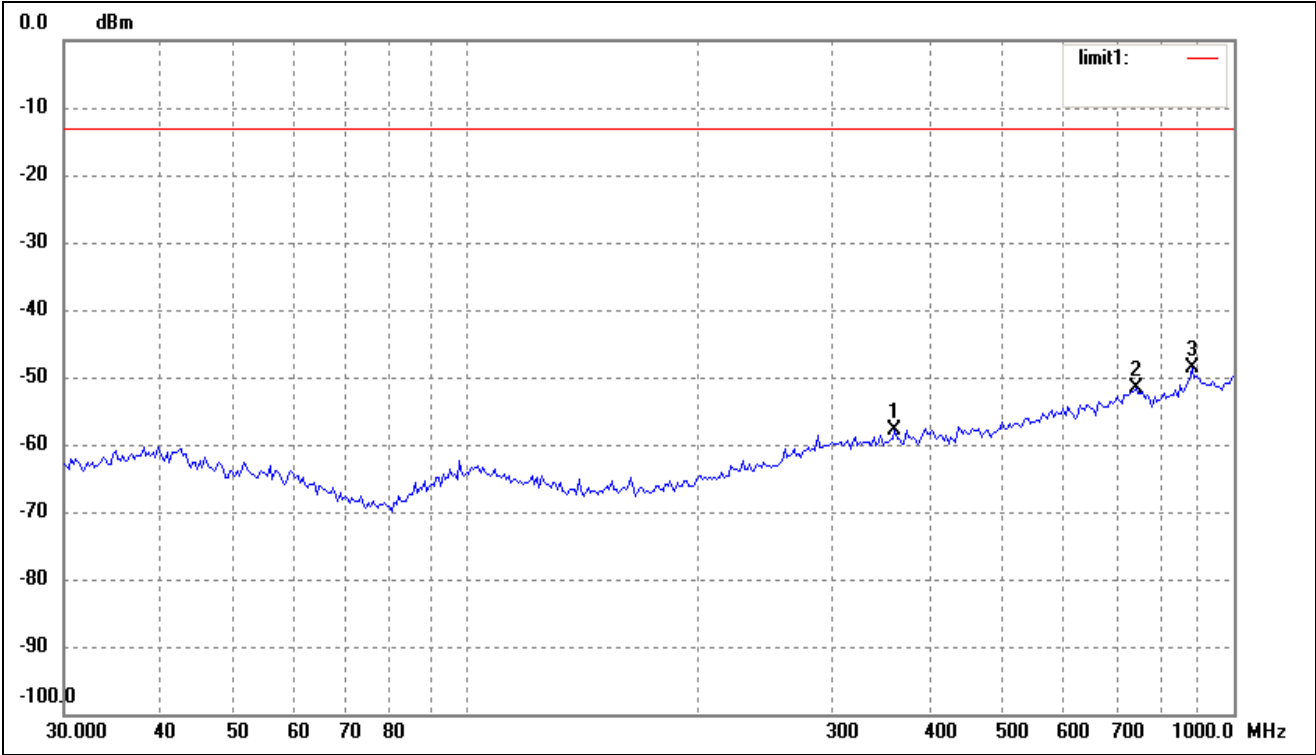
For PCS Band_GPRS Mode High channel

Horizontal:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	744.8661	-70.51	17.95	-52.56	-13.00	-39.56	ERP
2	900.1474	-68.92	19.38	-49.54	-13.00	-36.54	ERP
3	972.3374	-68.10	18.60	-49.50	-13.00	-36.50	ERP

Vertical:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	361.7139	-68.59	10.69	-57.90	-13.00	-44.90	ERP
2	744.8661	-69.62	17.95	-51.67	-13.00	-38.67	ERP
3	881.4067	-67.63	19.03	-48.60	-13.00	-35.60	ERP

*Spurious Emissions Above 1GHz**For Cellular Band_GSM Mode*

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (824.2MHz)						
1858.000	-56.55	-0.63	-57.18	-13.00	-44.18	H
4058.000	-58.79	6.86	-51.93	-13.00	-38.93	H
9954.000	-59.27	15.78	-43.49	-13.00	-30.49	H
6500.000	-58.06	10.61	-47.45	-13.00	-34.45	H
1858.000	-53.55	-0.63	-54.18	-13.00	-41.18	V
5774.000	-59.75	10.08	-49.67	-13.00	-36.67	V
7776.000	-60.23	13.66	-46.57	-13.00	-33.57	V
9954.000	-60.77	15.78	-44.99	-13.00	-31.99	V
Middle Channel (836.6MHz)						
11186.000	-59.10	16.53	-42.57	-13.00	-29.57	H
10020.000	-59.39	15.98	-43.41	-13.00	-30.41	H
1858.000	-56.34	-0.63	-56.97	-13.00	-43.97	H
8436.000	-58.50	14.62	-43.88	-13.00	-30.88	H
1858.000	-56.58	-0.63	-57.21	-13.00	-44.21	V
6214.000	-59.01	10.21	-48.80	-13.00	-35.80	V
8678.000	-59.72	15.15	-44.57	-13.00	-31.57	V
9954.000	-60.03	15.78	-44.25	-13.00	-31.25	V
High Channel (848.8MHz)						
1858.000	-56.56	-0.63	-57.19	-13.00	-44.19	H
4058.000	-58.68	6.86	-51.82	-13.00	-38.82	H
7424.000	-60.30	13.77	-46.53	-13.00	-33.53	H
8436.000	-59.17	14.62	-44.55	-13.00	-31.55	H
1858.000	-56.96	-0.63	-57.59	-13.00	-44.59	V
5620.000	-59.45	10.18	-49.27	-13.00	-36.27	V
7358.000	-59.95	13.47	-46.48	-13.00	-33.48	V
8436.000	-58.51	14.62	-43.89	-13.00	-30.89	V

For Cellular Band_GPRS Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (824.2MHz)						
1858.000	-55.05	-0.63	-55.68	-13.00	-42.68	H
3024.000	-58.49	4.02	-54.47	-13.00	-41.47	H
4058.000	-57.79	6.86	-50.93	-13.00	-37.93	H
8612.000	-60.81	15.03	-45.78	-13.00	-32.78	H
1858.000	-52.55	-0.63	-53.18	-13.00	-40.18	V
4058.000	-58.29	6.86	-51.43	-13.00	-38.43	V
7776.000	-59.73	13.66	-46.07	-13.00	-33.07	V
11076.000	-59.12	16.38	-42.74	-13.00	-29.74	V
Middle Channel (836.6MHz)						
1858.000	-56.53	-0.63	-57.16	-13.00	-44.16	H
3684.000	-58.81	5.88	-52.93	-13.00	-39.93	H
8788.000	-59.37	15.37	-44.00	-13.00	-31.00	H
11186.000	-59.10	16.53	-42.57	-13.00	-29.57	H
1858.000	-58.26	-0.63	-58.89	-13.00	-45.89	V
4916.000	-59.87	8.18	-51.69	-13.00	-38.69	V
10042.000	-60.10	15.98	-44.12	-13.00	-31.12	V
11032.000	-59.98	16.32	-43.66	-13.00	-30.66	V
High Channel (848.8MHz)						
1858.000	-57.30	-0.63	-57.93	-13.00	-44.93	H
5642.000	-59.29	10.17	-49.12	-13.00	-36.12	H
7534.000	-58.95	14.04	-44.91	-13.00	-31.91	H
9250.000	-59.14	14.69	-44.45	-13.00	-31.45	H
1726.000	-54.46	-1.38	-55.84	-13.00	-42.84	V
8458.000	-58.86	14.67	-44.19	-13.00	-31.19	V
9954.000	-58.57	15.78	-42.79	-13.00	-29.79	V
11164.000	-59.41	16.50	-42.91	-13.00	-29.91	V

For PCS Band_GSM Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (824.2MHz)						
1836.000	-57.64	-0.75	-58.39	-13.00	-45.39	H
4278.000	-59.33	6.91	-52.42	-13.00	-39.42	H
7556.000	-59.85	14.01	-45.84	-13.00	-32.84	H
8766.000	-59.37	15.33	-44.04	-13.00	-31.04	H
5510.000	-59.37	10.27	-49.10	-13.00	-36.10	V
8722.000	-59.25	15.25	-44.00	-13.00	-31.00	V
9932.000	-59.63	15.67	-43.96	-13.00	-30.96	V
11626.000	-60.66	17.01	-43.65	-13.00	-30.65	V
Middle Channel (836.6MHz)						
4080.000	-58.95	6.86	-52.09	-13.00	-39.09	H
5444.000	-58.96	10.06	-48.90	-13.00	-35.90	H
8590.000	-59.45	14.98	-44.47	-13.00	-31.47	H
11648.000	-59.97	17.02	-42.95	-13.00	-29.95	H
1880.000	-53.42	-0.50	-53.92	-13.00	-40.92	V
7424.000	-59.65	13.77	-45.88	-13.00	-32.88	V
8986.000	-59.80	15.77	-44.03	-13.00	-31.03	V
11054.000	-59.29	16.34	-42.95	-13.00	-29.95	V
High Channel (848.8MHz)						
5994.000	-57.88	9.92	-47.96	-13.00	-34.96	H
7358.000	-57.84	13.47	-44.37	-13.00	-31.37	H
8766.000	-59.35	15.33	-44.02	-13.00	-31.02	H
11076.000	-59.56	16.38	-43.18	-13.00	-30.18	H
11516.000	-60.70	16.97	-43.73	-13.00	-30.73	V
8832.000	-60.05	15.46	-44.59	-13.00	-31.59	V
4278.000	-58.77	6.91	-51.86	-13.00	-38.86	V
1902.000	-57.55	-0.38	-57.93	-13.00	-44.93	V

For PCS Band_GPRS Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (824.2MHz)						
5554.000	-59.66	10.24	-49.42	-13.00	-36.42	H
7446.000	-59.53	13.86	-45.67	-13.00	-32.67	H
8766.000	-58.92	15.33	-43.59	-13.00	-30.59	H
11670.000	-60.01	17.02	-42.99	-13.00	-29.99	H
1836.000	-56.10	-0.75	-56.85	-13.00	-43.85	V
7336.000	-59.63	13.38	-46.25	-13.00	-33.25	V
8766.000	-58.99	15.33	-43.66	-13.00	-30.66	V
11648.000	-59.61	17.02	-42.59	-13.00	-29.59	V
Middle Channel (836.6MHz)						
1880.000	-52.35	-0.50	-52.85	-13.00	-39.85	H
7512.000	-59.93	14.09	-45.84	-13.00	-32.84	H
8766.000	-59.84	15.33	-44.51	-13.00	-31.51	H
11076.000	-59.09	16.38	-42.71	-13.00	-29.71	H
1880.000	-54.42	-0.50	-54.92	-13.00	-41.92	V
7336.000	-59.53	13.38	-46.15	-13.00	-33.15	V
8986.000	-59.80	15.77	-44.03	-13.00	-31.03	V
11054.000	-59.29	16.34	-42.95	-13.00	-29.95	V
High Channel (848.8MHz)						
5510.000	-59.29	10.27	-49.02	-13.00	-36.02	H
7314.000	-59.49	13.29	-46.20	-13.00	-33.20	H
8766.000	-59.49	15.33	-44.16	-13.00	-31.16	H
11604.000	-60.50	17.00	-43.50	-13.00	-30.50	H
1902.000	-56.43	-0.38	-56.81	-13.00	-43.81	V
7556.000	-59.47	14.01	-45.46	-13.00	-32.46	V
8766.000	-59.35	15.33	-44.02	-13.00	-31.02	V
11076.000	-59.56	16.38	-43.18	-13.00	-30.18	V

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics. The measurements greater than 20dB below the limit from 9kHz to 30MHz.

8. Frequency Stability

8.1 Standard Applicable

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:

Frequency Tolerance for Cellular Band

Frequency range (MHz)	Base, fixed (ppm)	Mobile ≤3 watts (ppm)	Mobile ≤3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929	5.0	N/A	N/A
929 to 960	1.5	N/A	N/A
2110 to 2220	10.0	N/A	N/A

According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

8.2 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Cal. Date	Due. Date
Aglient	Spectrum Analyzer	E4402B-ESA	US41192821	2012-03-28	2013-03-27
Rohde & Schwarz	Universal Radio Communication	CMU200	112012	2012-03-28	2013-03-27
GONGWEN	Moisture Test Chamber	GDS-150	SEMT-0013	2012-03-28	2013-03-27

8.3 Test Procedure

According to §2.1055, the following test procedure was performed.

The Frequency Stability is measured directly with a Frequency Domain Analyzer. Frequency Deviation in ppm is calculated from the measured peak to peak value.

The Carrier Frequency Stability over Power Supply Voltage and over Temperature is measured with a Frequency Domain Analyzer in histogram mode

Temperature:	Supply Voltage
20°C	85-115% of declared nominal voltage
-30°C to +50°C	Normal

8.4 Environmental Conditions

Temperature:	20°C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

8.5 Summary of Test Results/Plots

For Cellular Band GSM Mode

Reference Frequency(Middle Channel): 836.6 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	3.7	46	0.0550
40	3.7	30	0.0359
30	3.7	21	0.0251
20	3.7	25	0.0299
10	3.7	32	0.0383
0	3.7	38	0.0454
-10	3.7	46	0.0550
-20	3.7	40	0.0478
-30	3.7	48	0.0574

For PCS Band GSM Mode

Reference Frequency(Middle Channel): 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	3.7	-73	-0.0388
40	3.7	-69	-0.0367
30	3.7	-51	-0.0271
20	3.7	-67	-0.0356
10	3.7	-48	-0.0255
0	3.7	-37	-0.0197
-10	3.7	-43	-0.0229
-20	3.7	-57	-0.0303
-30	3.7	-53	-0.0282

For Cellular Band GPRS Mode

Reference Frequency(Middle Channel): 836.6 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	3.7	-30	-0.0359
40	3.7	-19	-0.0227
30	3.7	-21	-0.0251
20	3.7	-27	-0.0323
10	3.7	-30	-0.0359
0	3.7	-38	-0.0454
-10	3.7	-46	-0.0550
-20	3.7	-43	-0.0514
-30	3.7	-50	-0.0598

For PCS Band GPRS Mode

Reference Frequency(Middle Channel): 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	3.7	-48	-0.0255
40	3.7	-57	-0.0303
30	3.7	-35	-0.0186
20	3.7	-46	-0.0245
10	3.7	-52	-0.0277
0	3.7	-46	-0.0245
-10	3.7	-55	-0.0293
-20	3.7	-60	-0.0319
-30	3.7	-63	-0.0335

So, Frequency Stability Versus Input Voltage is:

Reference Frequency(Middle Channel): GSM 836.6MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	3.3	33	0.0394
	3.7	25	0.0299
	4.2	30	0.0359
Reference Frequency(Middle Channel): GSM 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	3.3	-72	-0.0383
	3.7	-67	-0.0356
	4.2	-63	-0.0335
Reference Frequency(Middle Channel): GPRS 836.6MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	3.3	-35	-0.0418
	3.7	-27	-0.0323
	4.2	-32	-0.0383
Reference Frequency(Middle Channel): GPRS 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	3.3	-48	-0.0255
	3.7	-46	-0.0245
	4.2	-56	-0.0298

***** END OF REPORT *****