



FCC RF Test Report

**Product Name: HUAWEI Ascend Y 100;
HSDPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth**

Model Number: HUAWEI U8185-1, U8185-1

**Report No: SYBH(Z-RF)005032012-2002
FCC ID: FCC ID: QISU8185-1**

Reliability Laboratory of Huawei Technologies Co., Ltd.

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

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Notice

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-2.
4. The test report is invalid if not marked with "exclusive stamp for the test report".
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.
6. The test report is invalid if there is any evidence of erasure and/or falsification.
7. If there is any dissidence for the test report, please file objection to the test centre within 15 days from the date of receiving the test report.
8. Normally, the test report is only responsible for the samples that have undergone the test.
9. 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.



Applicant: Huawei Technologies Co., Ltd.
Address: Huawei Base, Bantian, Longgang District, Shenzhen
518129, P.R. China
Date of Receipt Test Item: Feb.25, 2012
Start Date of Test: Feb.26, 2012
End Date of Test: Mar.03, 2012

Test Result: Pass

Approved By Senior Engineer Mar.04, 2012 Dai Linjun *Dailinjun*
Date Name Signature

Reviewed By Mar.04, 2012 Cousy Xu *Cousy XU*
Date Name Signature

Operator Mar.04, 2012 Huang Qiuliang *Huang Qiuliang*
Date Name Signature

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1 General Information

1.1 Applied Standard

Applied Rules: 47 CFR FCC Part 2:2010, Subpart J
47 CFR FCC Part 24:2010, Subpart E
ANSI/TIA 603C:2004

1.2 Test Location

Test Location 1: Reliability Laboratory of Huawei Technologies Co., Ltd.
Address: Huawei Base, Bantian, Longgang District, Shenzhen 518129, P.R.
China

1.3 Test Environment Condition

Ambient Temperature: 20 – 25 °C
Ambient Relative Humidity: 45 – 55 %
Atmospheric Pressure: 101 kPa

2 Summary

Table 1 Summary of results

Test Case	FCC Part No.	Requirements	Result
PCS Band			
Transmitter Output Power	2.1046 & 24.232	Peak EIRP not exceed 2 W Peak-to-average ratio not exceed 13 dB	Pass
Modulation Characteristics	2.104	Digital modulation	Pass
Occupied Bandwidth	2.104	(Not specified)	Pass
Band Edges Compliance	2.1051 & 24.238	Below -13 dBm/1%*EBW, in 1 MHz range	Pass
Spurious Emission at Antenna Terminals	2.1051 & 24.238	Below -13 dBm/1 kHz, 9 kHz to 150 kHz Below -13 dBm/10 kHz, 150 kHz to 30 MHz Below -13 dBm/1 MHz, 30 MHz to 10 th harmonics	Pass
Field Strength of Spurious Radiation	2.1053 & 24.238	Below -13 dBm/1 MHz	Pass
Frequency Stability	2.1055 & 24.235	Stay within the authorized frequency block	Pass

3 Product Description

3.1 Production Information

3.1.1 General Description

HUAWEI U8185-1, U8185-1 is subscriber equipment in the WCDMA/GSM system. The HSDPA/UMTS frequency band is Band I and Band VIII, neither of bands test data included in this report. The GSM/GPRS/EDGE frequency band includes GSM850 and GSM900 and DCS1800 and PCS1900, but only PCS1900 test data included in this report. The Mobile Phone implements such functions as RF signal receiving/transmitting, HSDPA/UMTS and GSM/GPRS/EDGE protocol processing, voice, video MMS service, GPS, AGPS 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.

1.3.1 Board Information

Table 2 Board Information

HUAWEI Ascend Y 100; HSDPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth		
HUAWEI U8185-1, U8185-1		
Board and Module		
Serial Number	Software Version	Hardware Version
L8X01A9211800011	U8185-1V100R001C00B805	HD1U8185M

3.1.2 Adapter Technical Data

AC/DCAdapter Model	HS-050040U6
Manufacturer	Huawei Technologies Co., Ltd.
Input Voltage	~100-240V 50/60Hz 0.2A
Output Voltage	5V  400mA
Rated Power	5W

AC/DCAdapter Model	HW-050055E1W
Manufacturer	Huawei Technologies Co., Ltd.
Input Voltage	~100-240V 50/60Hz 0.2A
Output Voltage	5V  550mA
Rated Power	5W

AC/DCAdapter Model	HW-050055B1W
Manufacturer	Huawei Technologies Co., Ltd.
Input Voltage	~100-240V 50/60Hz 0.2A
Output Voltage	5V  550mA
Rated Power	5W



AC/DCAdapter Model	HS-050040A6
Manufacturer	Huawei Technologies Co., Ltd.
Input Voltage	~100-240V 50/60Hz 0.2A
Output Voltage	5V  400mA
Rated Power	5W

3.1.3 Battery Technical Data

Name	Qty.	Manufacture	Serials number	Description
Rechargeable Li-ion	1	Huawei Technologies Co., Ltd.		Battery Model: HB4J1 Rated capacity: 1050mAh Nominal Voltage:  +3.7V Charging Voltage:  +4.2V

4 Test Description

4.1 Supported Frequency Range

Characteristics	Description
Downlink	1930 to 1990 MHz
Uplink	1850 to 1910 MHz

4.2 Transmitter / Receiver Characteristics

Characteristics	Description
System Type	GSM
TX Output Power (per Antenna Port)	GSM system: 30dBm;
Channel Spacing(s) / Bandwidth(s)	GSM system: 200 kHz
Designation of Emissions	GSM system: 247KGXW (GMSK modulation), 247KG7W (8PSK modulation)

4.3 Antenna Gain

Antenna Gain(dBi)	-0.5
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4.4 Power Supply

Specification	Description
Power Supply Type	Directly Connected to DC /AC Power Supply
Input to EUT (DC power)	DC Voltage Nominal: \approx 3.7 V DC Voltage Range: \approx 3.6 V to 4.2 V
Input to EUT (AC power)	AC Voltage Nominal: ~ 230 V (50/60 Hz) AC Voltage Range: ~100-240V

5 General Test Conditions / Configurations

5.1 RF Channels under Test

Test Mode	TX / RX	RF Channel		
		Bottom (B)	Middle (M)	Top (T)
TM1/TM2	TX	Channel 512	Channel 661	Channel 810
		1850.2MHz	1880.0MHz	1909.8MHz
	RX	Channel 512	Channel 661	Channel 810
		1930.2 MHz	1960.0 MHz	1989.8 MHz

5.2 Test Modes

Test Mode	Test Modes Description
TM1	GSM/GPRS, GMSK modulation
TM2	EDGE, 8PSK modulation

5.3 Test Environments

Environment Parameter	Selected Values During Tests	
Relative Humidity	Ambient	
Temperature	TN	Ambient
Voltage	VL	3.6V
	VN	3.7V
	VH	4.2V

NOTE: VL= lower extreme test voltages

VN= nominal voltage

VH= upper extreme test voltage

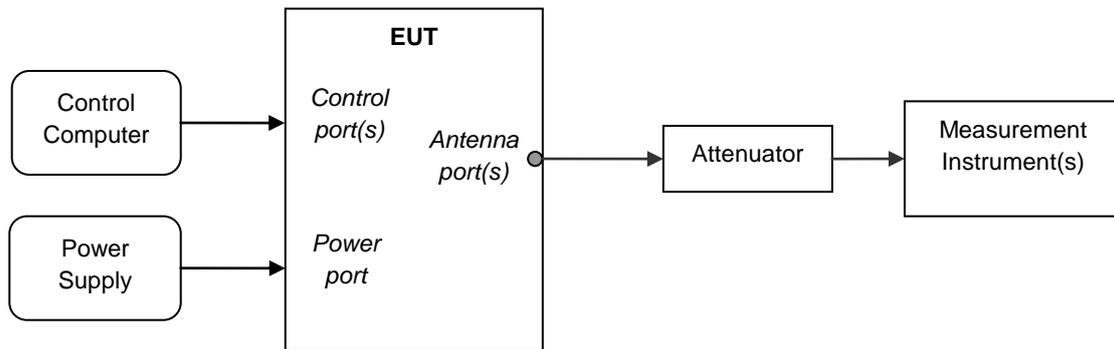
TN= normal temperature

5.4 Test Setups

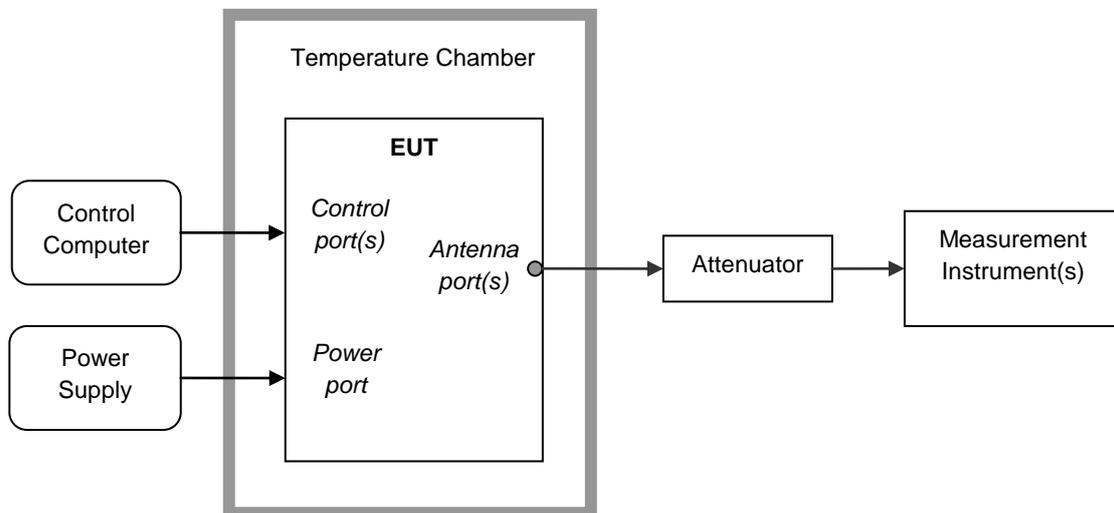
5.4.1 General Test Setup Configurations

Configuration	Description
Test Antenna Ports	Until otherwise declared, all TX tests are ONLY performed at the main Transmitter antenna port (e.g. TRXA, TXA and so on) of the EUT, and all RX tests are ONLY performed at the main Receiver antenna port (e.g. TRXA, RXA and so on) of the EUT.
Multiple RF Sources	Other than the tested RF source of the EUT, other RF source(s) are disabled or shutdown during measurements.

5.4.2 Test Setup 1



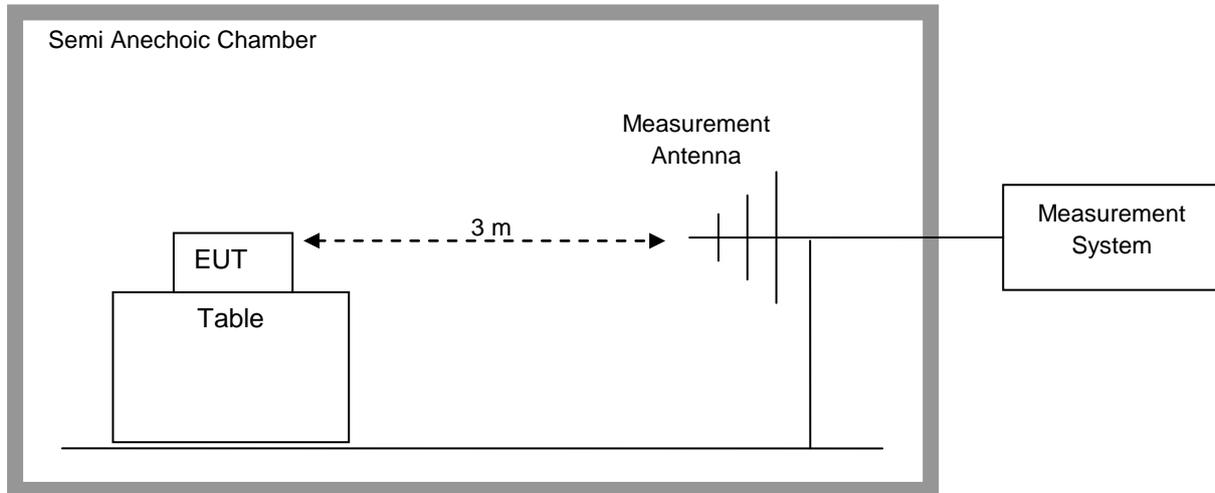
5.4.3 Test Setup 2



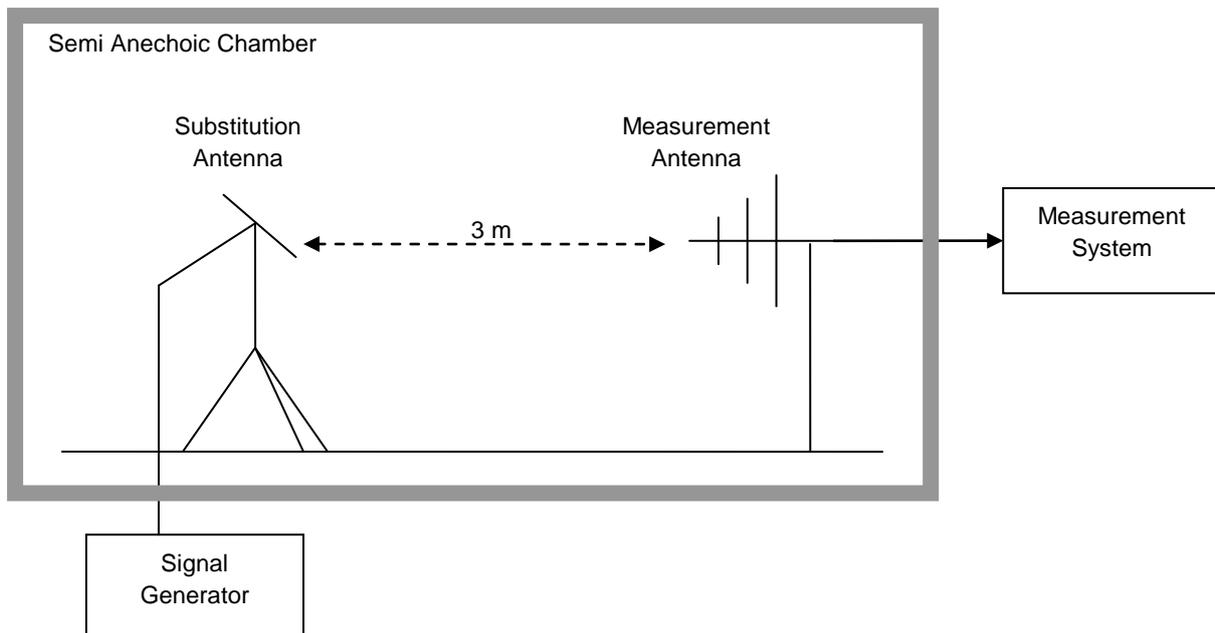
5.4.4 Test Setup 3

NOTE: Effective Isotropic radiated power (EIRP) refers to the radiation power output of the EUT, assuming all emissions are radiated from half-wave dipole antennas.

Step 1: Pre-test



Step 2: Substitution method to verify the maximum EIRP



5.5 Test Conditions

Test Case	Test Conditions	
Transmitter Output Power	Test Configuration	Ambient Temperature & Rated Voltage
	Test Setup	Test Setup 1 & Test Setup 3
	Detector	RMS
	RF Channels (TX)	B, M, T
	Test Mode	TM1/TM2
Modulation Characteristics	Test Configuration	Ambient Temperature & Rated Voltage
	Test Setup	Test Setup 1
	RF Channels (TX)	M
	Test Mode	TM1/TM2
Occupied Bandwidth	Test Configuration	Ambient Temperature & Rated Voltage
	Test Setup	Test Setup 1
	Detector	PK
	RF Channels (TX)	B, M, T
	Test Mode	TM1/TM2
Band Edges Compliance	Test Configuration	Ambient Temperature & Rated Voltage
	Test Setup	Test Setup 1
	Detector	RMS
	RF Channels (TX)	B, T
	Test Mode	TM1/TM2
Spurious Emission at Antenna Terminals	Test Configuration	Ambient Temperature & Rated Voltage
	Test Setup	Test Setup 1
	Detector	PK
	RF Channels (TX)	B, M, T
	Test Mode	TM1/TM2
Field Strength of Spurious Radiation	Test Configuration	Ambient Temperature & Rated Voltage
	Test Setup	Test Setup 3
	Detector	PK
	RF Channels (TX)	M
	Test Mode	TM1/TM2
Frequency Stability	Test Configuration	(1) -30 °C to +50 °C with step 10 °C at Rated Voltage; (2) 85%, 100% and 115% of Rated Voltage at Ambient Temperature.
	Test Setup	Test Setup 2



Test Case	Test Conditions	
	RF Channels (TX)	M
	Test Mode	TM1/TM2

6 Main Test Instruments

Table 3 Main Test Equipments

Equipment Description	Manufacturer	Model	Serial Number	Calibrated until
Power supply	KEITHLEY	2303	1288003	Sep.27,2012
Universal Radio Communication Tester	R&S	CMU200	117341	Jan.12.2013
Universal Radio Communication Tester	Agilent	E5515C	MY50260239	Aug.31,2012
Spectrum Analyzer	Agilent	E4440A	MY49420179	Apr.20,2012
Signal Analyzer	R&S	FSQ31	200021	Sep.27,2012
Temperature Chamber	WEISS	WKL64	24600294	Jan.03,2013
Signal generator	Agilent	E8257D	MY49281095	Jul.09.2012
Test receiver	R&S	ESU26	100150	May.29.2012
Tunable Dipole	Schwarzbeck	D69250-UHAP/D69250-VHAP	919/1009	Jan.29.2013
Tunable Dipole	Schwarzbeck	D69250-UHAP/D69250-VHAP	979/917	Jan.29.2013
Horn Antenna	R & S	HF906	100683	May.15, 2012
Horn Antenna	R & S	HF906	100684	Jul.01, 2012
Broadband Antenna	Schwarzbeck	VULB 9163	9163-357	May.15, 2012
Broadband Antenna	Schwarzbeck	VULB 9163	9163-356	May.15, 2012

7 Test Results

No.	Test Item	Test Result
1	Transmitter Output Power	Appendix A
2	Modulation Characteristics	Appendix B
3	Occupied Bandwidth	Appendix C
4	Band Edges Compliance	Appendix D
5	Spurious Emission at Antenna Terminals	Appendix E
6	Field Strength of Spurious Radiation	Appendix F
7	Frequency Stability	Appendix G
8	Photos of Field Strength of Spurious Radiation	Appendix H

NOTE: The Appendix H only photos of Field Strength of Spurious Radiation, no test data.

8 Measurement Uncertainty

For a 95% confidence level (k=2), the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following:

Test Item		Extended Uncertainty
Transmitter Output Power	Power (dBm)	U =0.39 dB
Occupied Bandwidth	Magnitude (%)	U=0.2%
Band Edge Compliance	Disturbance Power (dBm)	U=2.0 dB
Conducted Spurious Emissions	Disturbance Power (dBm)	U=2.0 dB
Field Strength of Spurious Radiation	ERP (dBm)	U=4.6 dB (30 MHz – 1GHz) U=3.0 dB (above 1 GHz)
Frequency Stability	Frequency Accuracy (ppm)	U=0.21 ppm

-----The END-----



Appendix A

Transmitter Output Power According to FCC Part 2.1046 & Part24.235



Conducted Power of Transmitter

TEST CONDITIONS	RF Output Power (Conducted)					
	Channel512(B)		Channel661(M)		Channel810(T)	
	1850.2MHz		1880MHz		1909.8MHz	
	dBm		dBm		dBm	
T_{nom} / V_{nom}	Measured	Limit	Measured	Limit	Measured	Limit
TM1	29.41	33	29.31	33	29.50	33
TM2	25.67	33	25.60	33	25.83	33



Effective Isotropic Radiated Power of Transmitter (EIRP)

Test Mode	Freq. [MHz]	Meas Level [dBm]	Substitution Antenna Type	SGP [dBm]	Substitution Gain [dBi]	Cable Loss [dB]	Substitution Level (EIRP) [dBm]	FCC limit [dBm]	Result
TM1	1850.2	28.91	Horn Ant.	25.45	4.5	1	28.95	33	Pass
TM1	1880	28.81	Horn Ant.	25.32	4.5	1	28.82	33	Pass
TM1	1909.8	29.00	Horn Ant.	25.25	4.8	1	29.05	33	Pass
TM2	1850.2	25.17	Horn Ant.	21.60	4.5	1	25.10	33	Pass
TM2	1880	25.1	Horn Ant.	21.64	4.5	1	25.14	33	Pass
TM2	1909.8	25.33	Horn Ant.	21.57	4.8	1	25.37	33	Pass

Note: a, For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should take to calculate it,

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b, SGP=Signal Generator Level



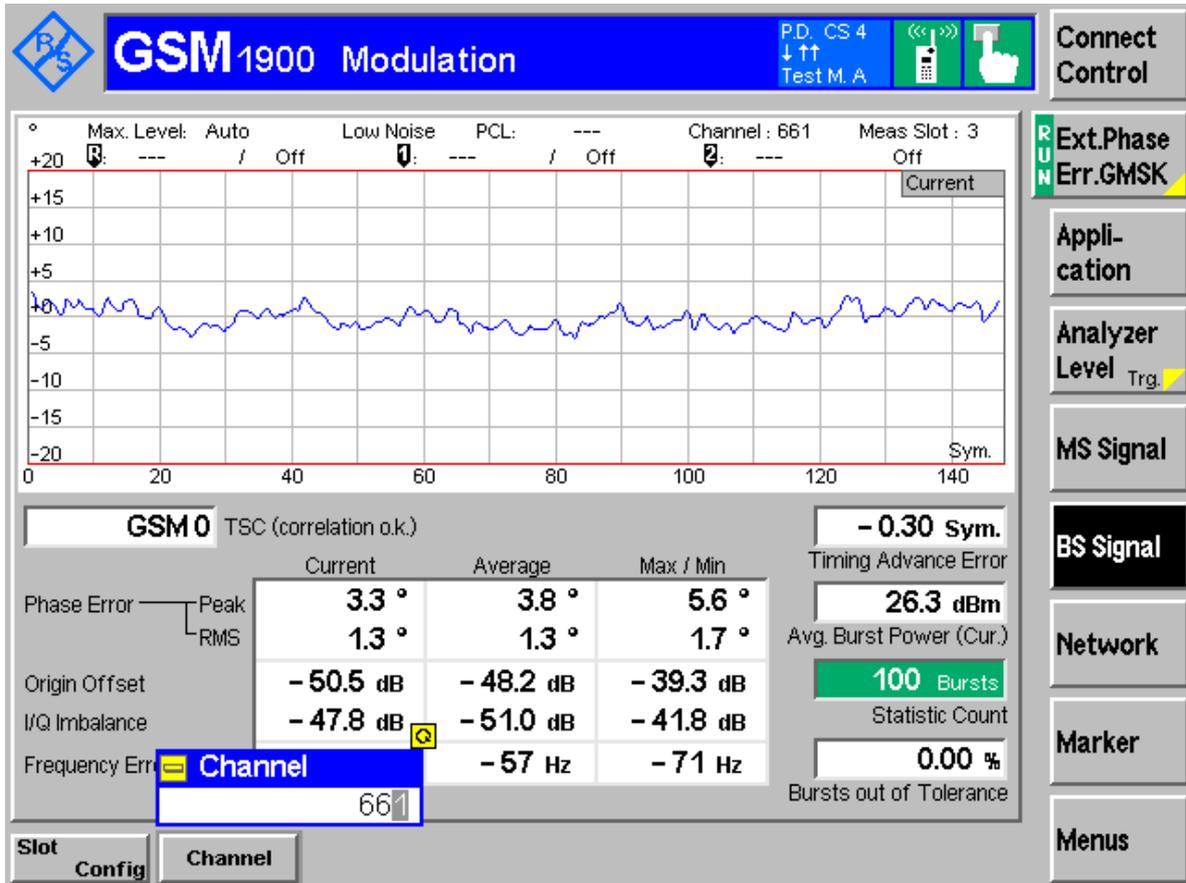
Appendix B

Modulation Characteristics

According to FCC Part 2.1047 & Part24 Subpart E

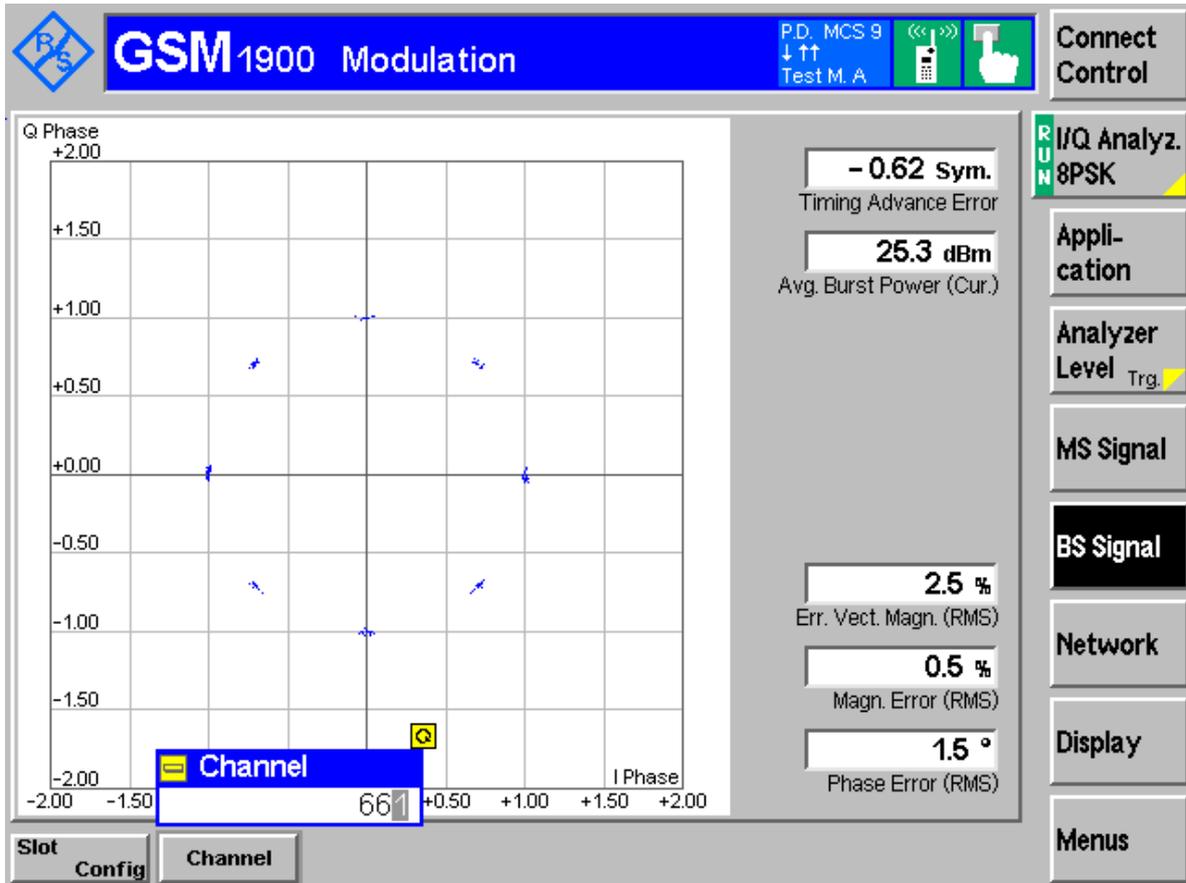


TM1:GPRS/GSM Channel 661





TM2:EDGE Channel 661



The END



Appendix C

Occupied Bandwidth

According to FCC Part 2.1049 & Part 24 Subpart E



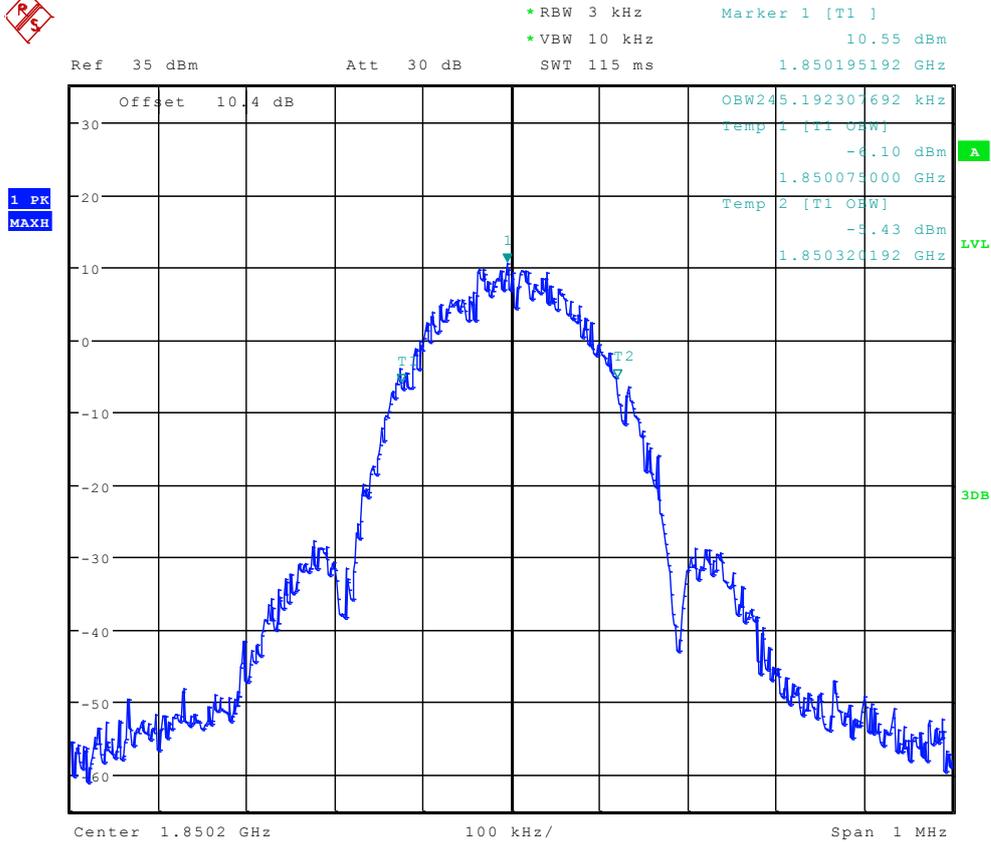
Result Table

Table 1 Measurement Results

Test Mode	RF Channel	Occupied Bandwidth [kHz]	Verdict
TM1	512	248.4	Pass
	661	245.2	Pass
	810	248.4	Pass
TM2	512	250.0	Pass
	661	240.4	Pass
	810	242.0	Pass

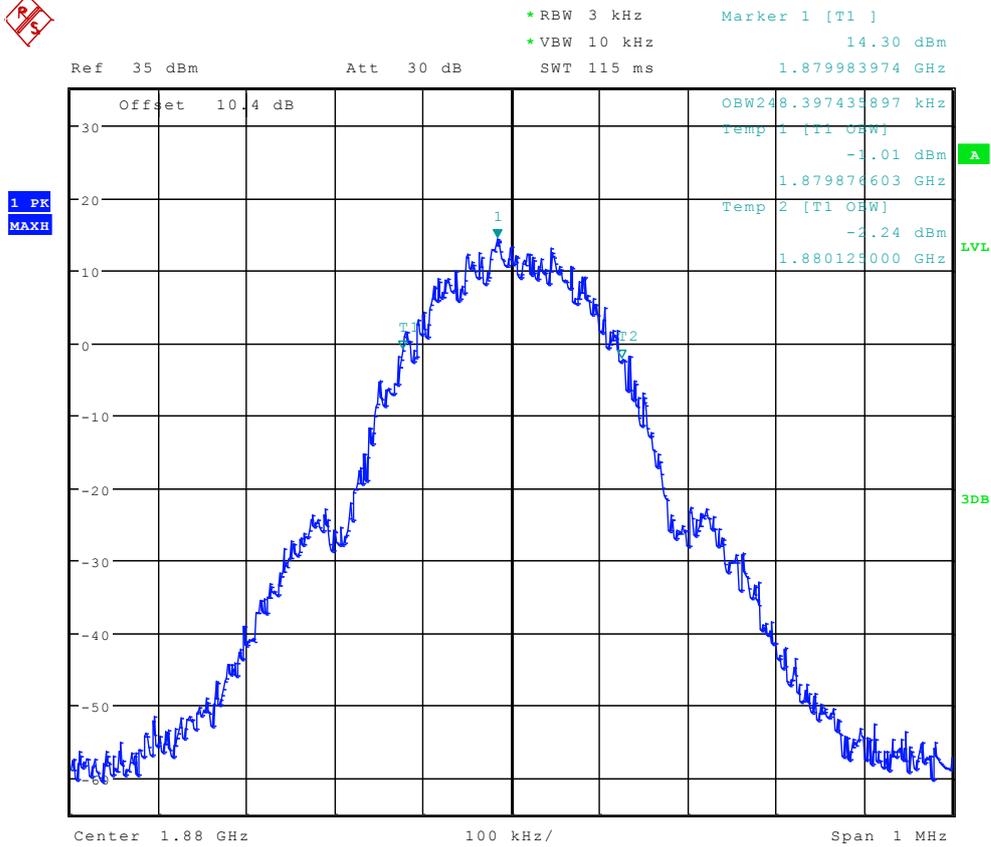


TM2:EDGE Channel 512



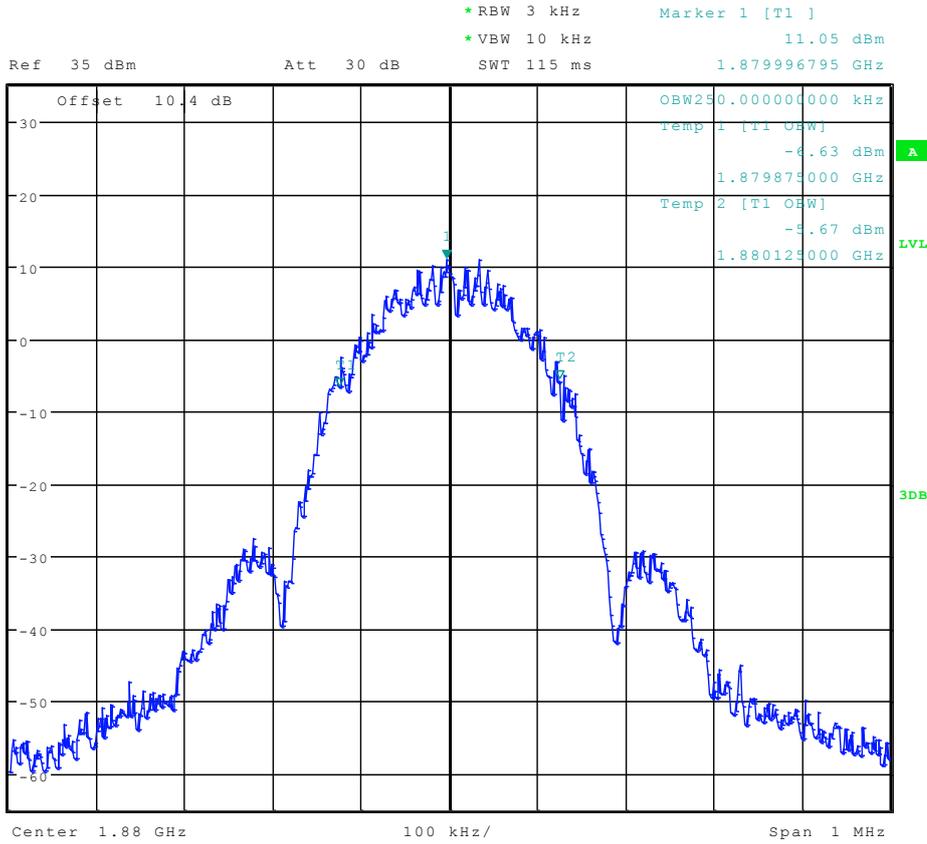


TM1:GPRS/GSM Channel 661



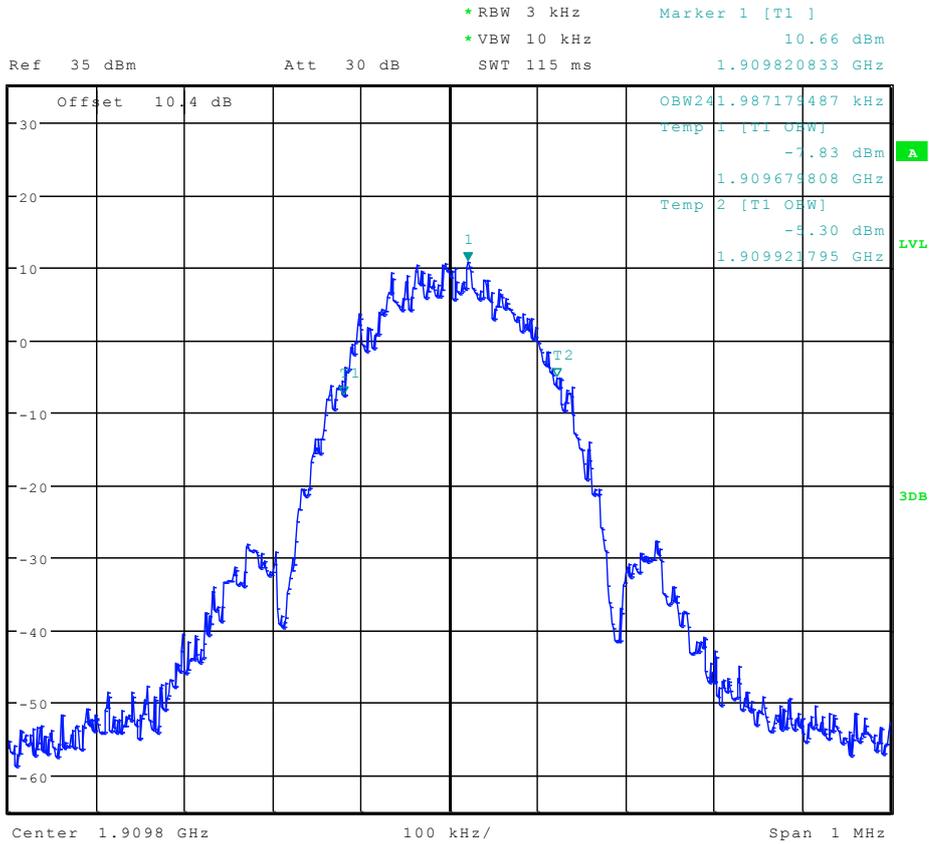


TM2:EDGE Channel 661





TM2:EDGE Channel 810



The END



Appendix D

Band Edges Compliance

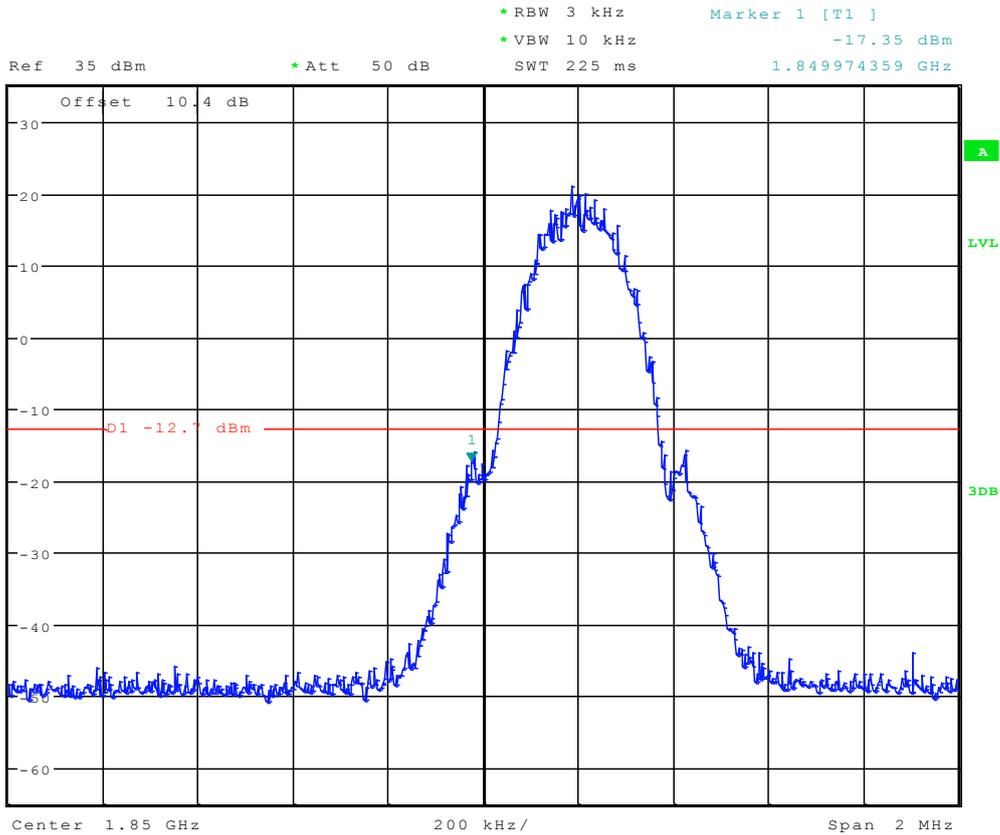
According to FCC Part 2.1051 & 24.238



TM1:GPRS/GSM

Left Edge

Channel 512



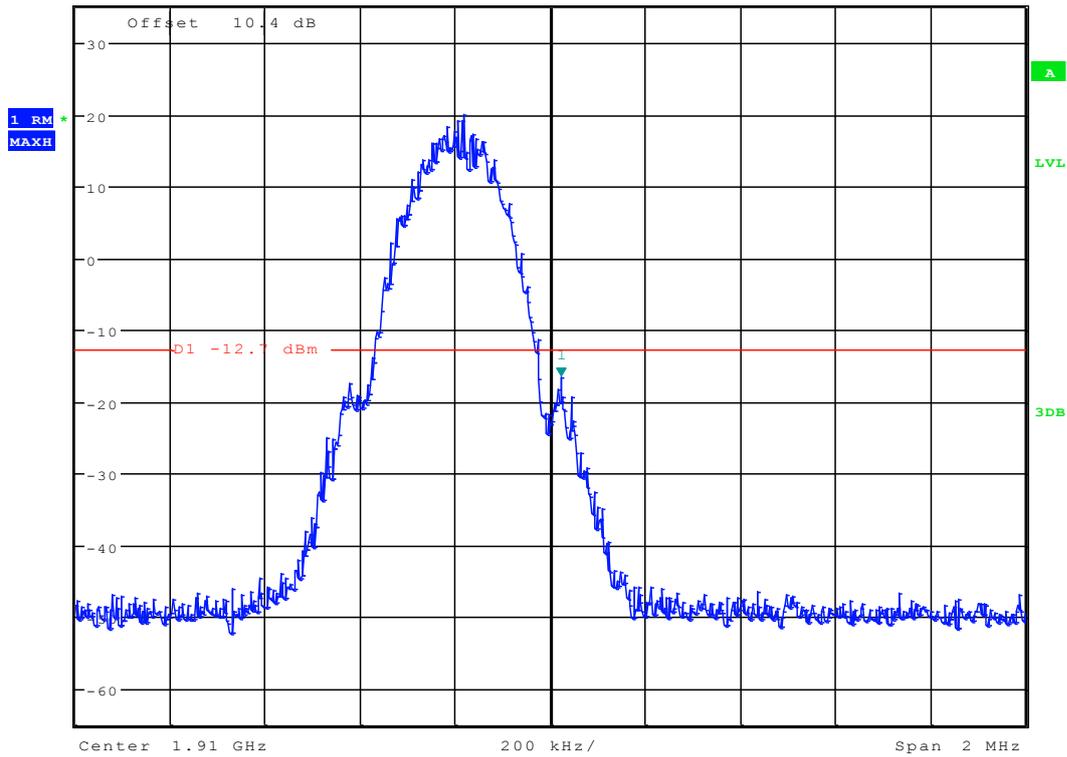
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Right Edge Channel 810



Ref 35 dBm *Att 50 dB *RBW 3 kHz *VBW 10 kHz SWT 225 ms Marker 1 [T1] -16.57 dBm 1.910022436 GHz



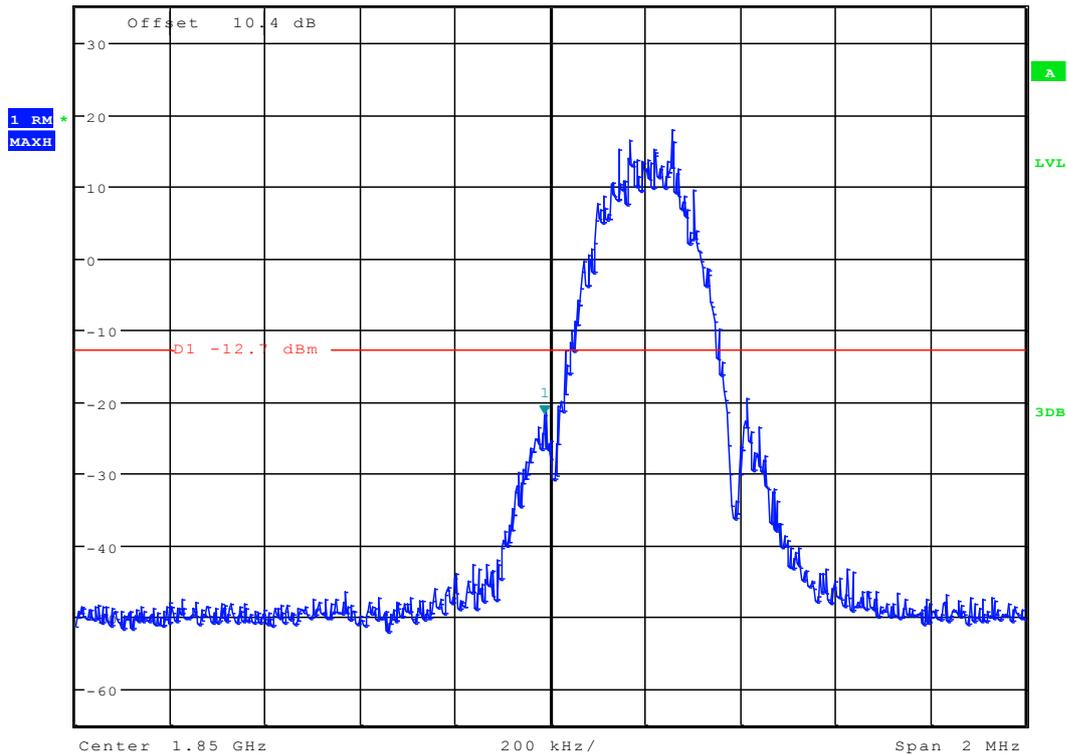
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EDGE Left Edge Channel 512



*RBW 3 kHz Marker 1 [T1]
 *VBW 10 kHz -21.88 dBm
 Ref 35 dBm *Att 50 dB SWT 225 ms 1.849987179 GHz



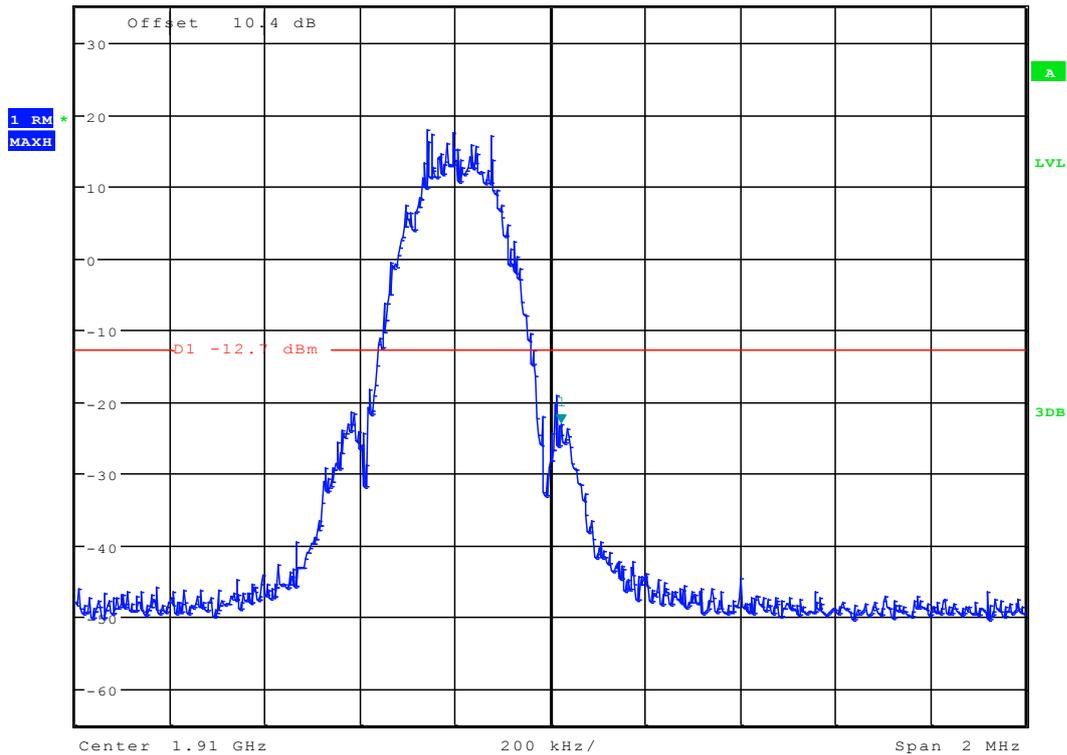
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Right Edge Channel 810



Ref 35 dBm *Att 50 dB *RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -23.10 dBm
SWT 225 ms 1.910022436 GHz



Date: 28.FEB.2012 17:27:43

The END



Appendix E

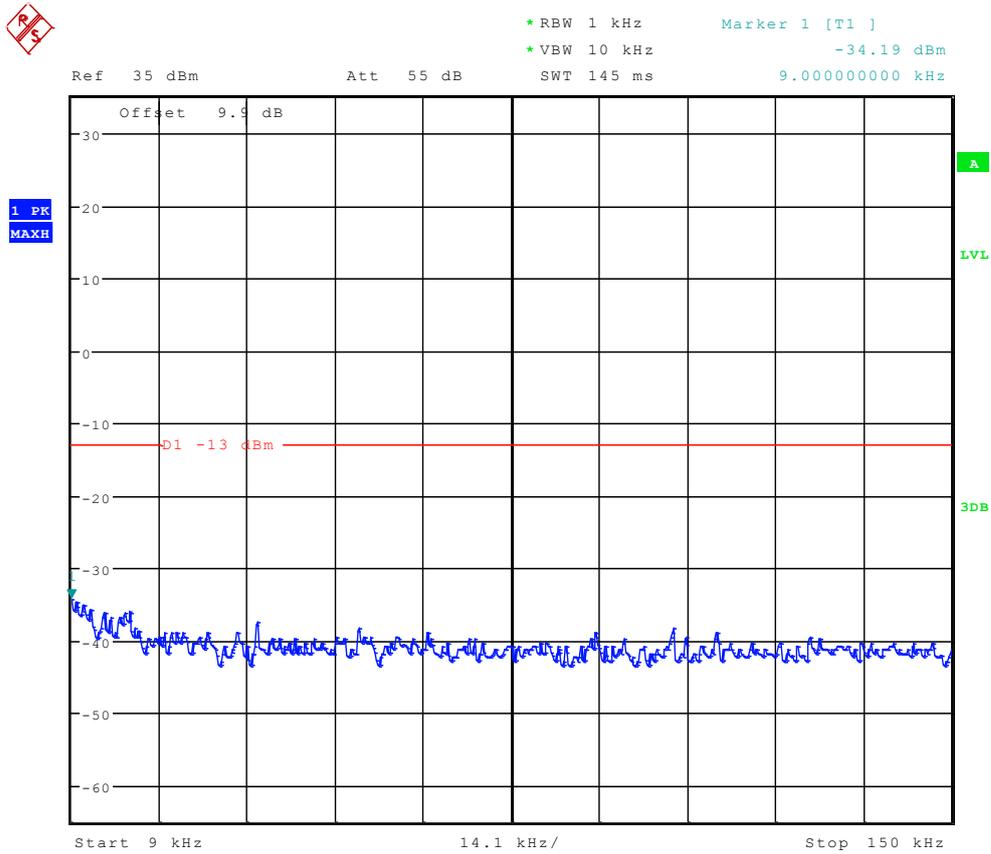
Spurious Emission at Antenna Terminal

According to FCC Part 2.1051 & 24.238



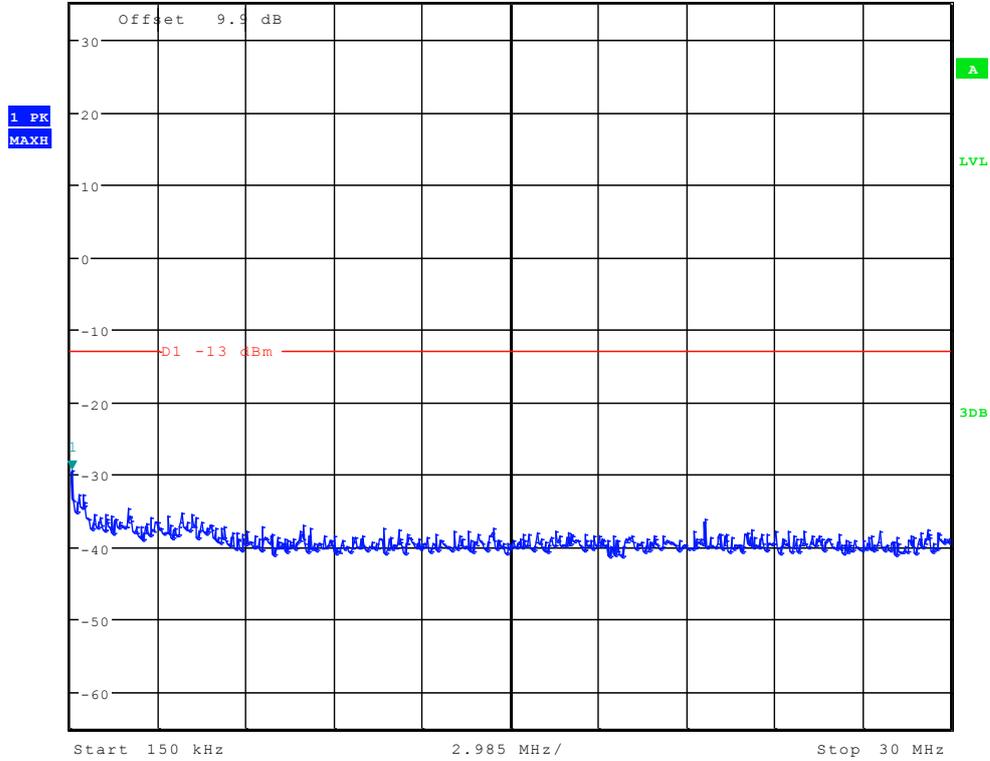
TM1:GPRS/GSM

Channel 512



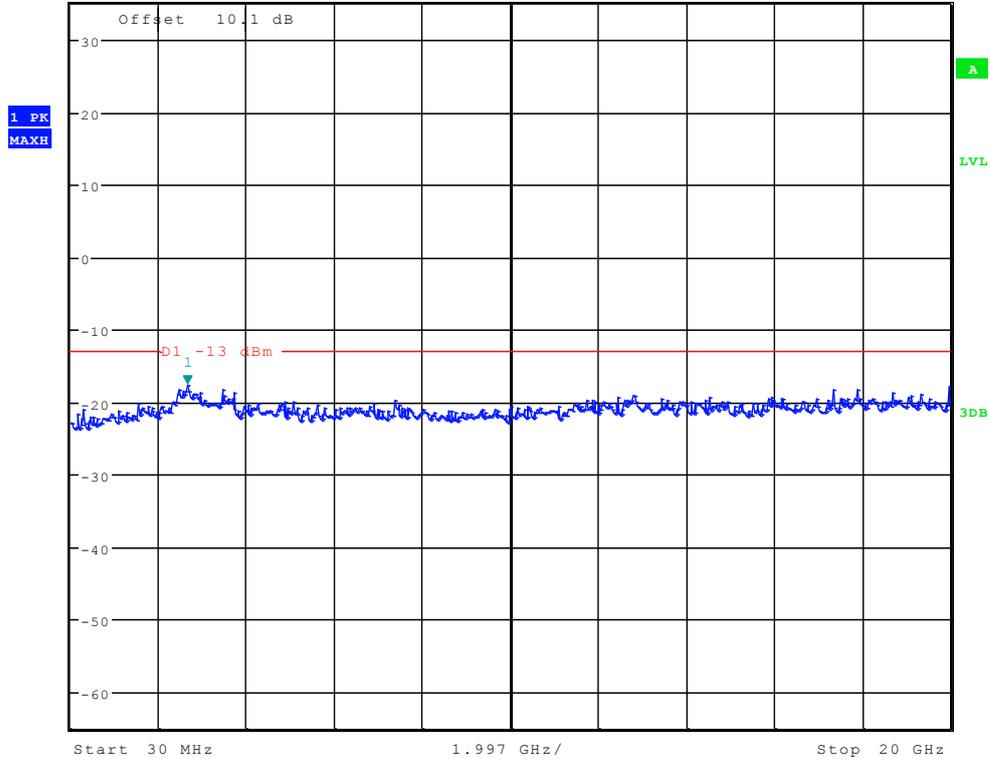


Ref 35 dBm Att 55 dB SWT 300 ms 197.836538462 kHz
*RBW 10 kHz Marker 1 [T1]
*VBW 30 kHz -29.32 dBm





* RBW 1 MHz Marker 1 [T1]
 * VBW 3 MHz -17.52 dBm
 Ref 35 dBm Att 50 dB SWT 115 ms 2.686266026 GHz



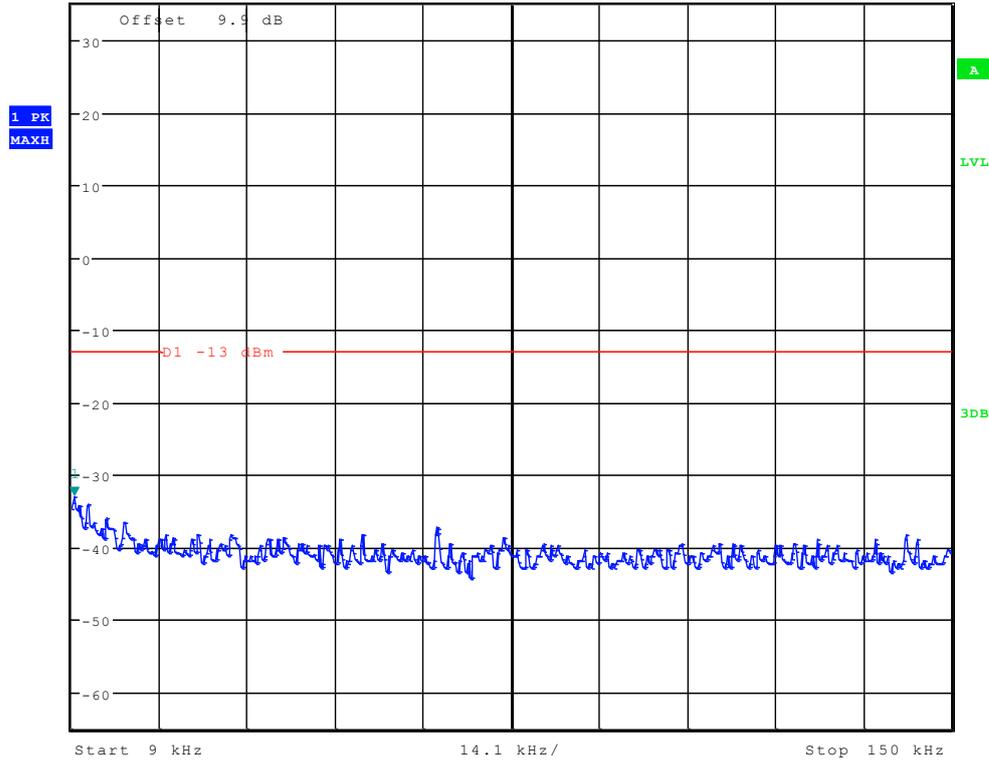


Channel 661



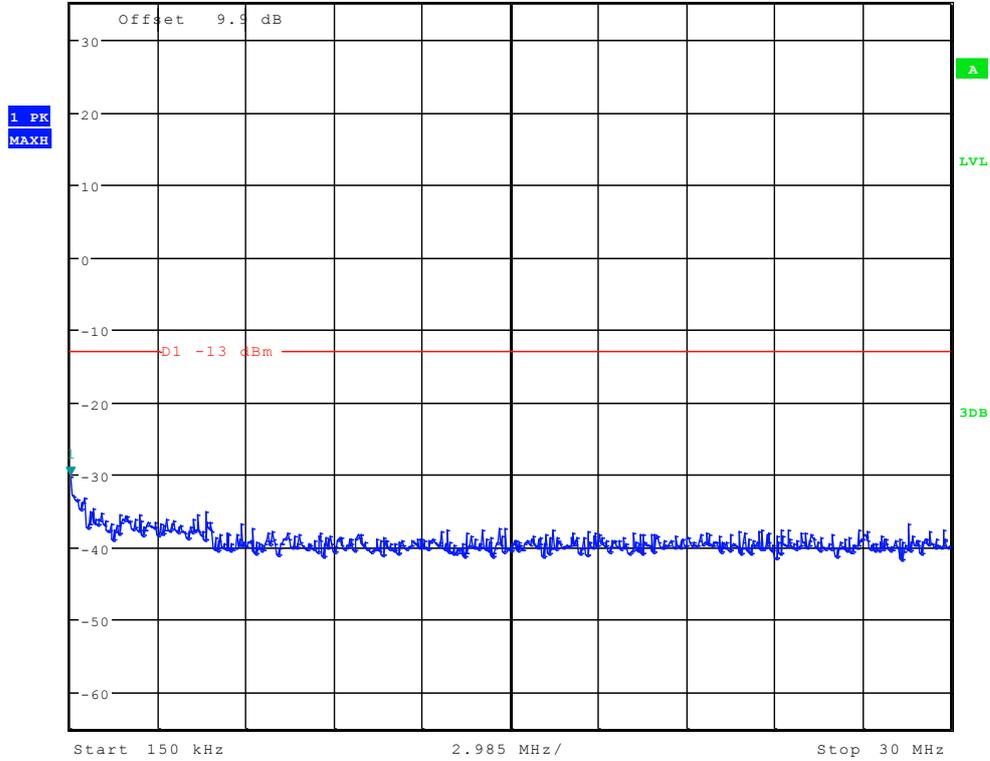
* RBW 1 kHz
* VBW 10 kHz
Marker 1 [T1]
-32.89 dBm
9.451923077 kHz

Ref 35 dBm Att 55 dB SWT 145 ms



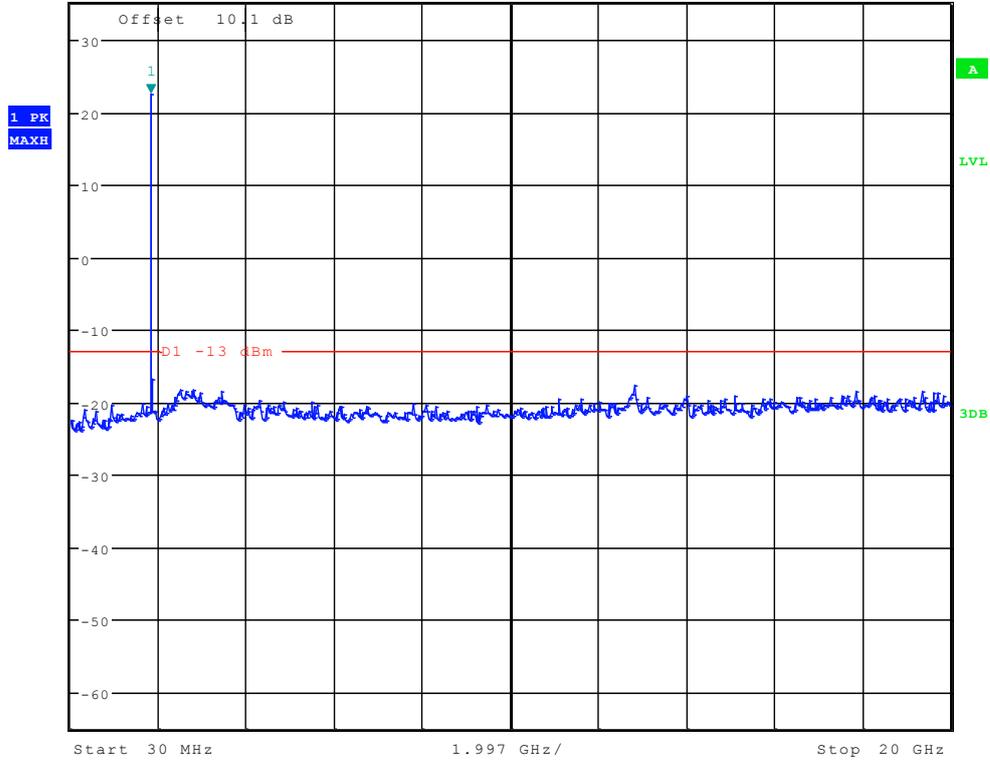


Ref 35 dBm Att 55 dB SWT 300 ms 150.00000000 kHz
*RBW 10 kHz Marker 1 [T1]
*VBW 30 kHz -30.22 dBm



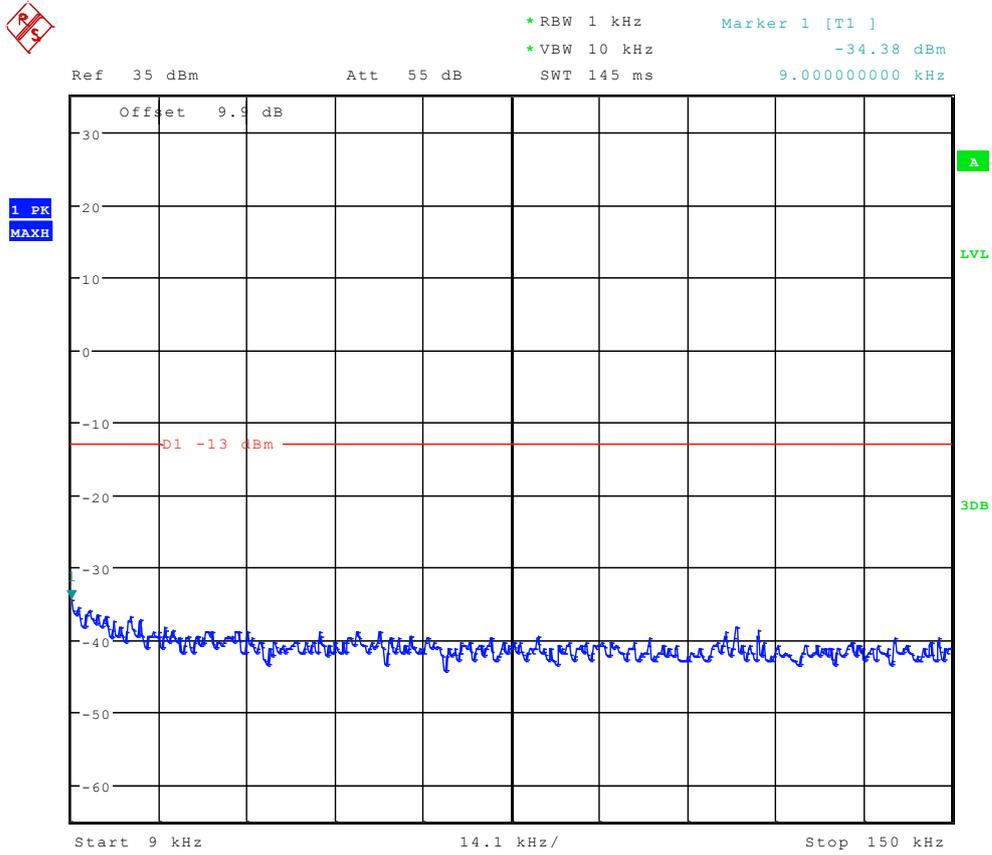


Ref 35 dBm Att 50 dB SWT 115 ms
*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 22.46 dBm
1.854182692 GHz



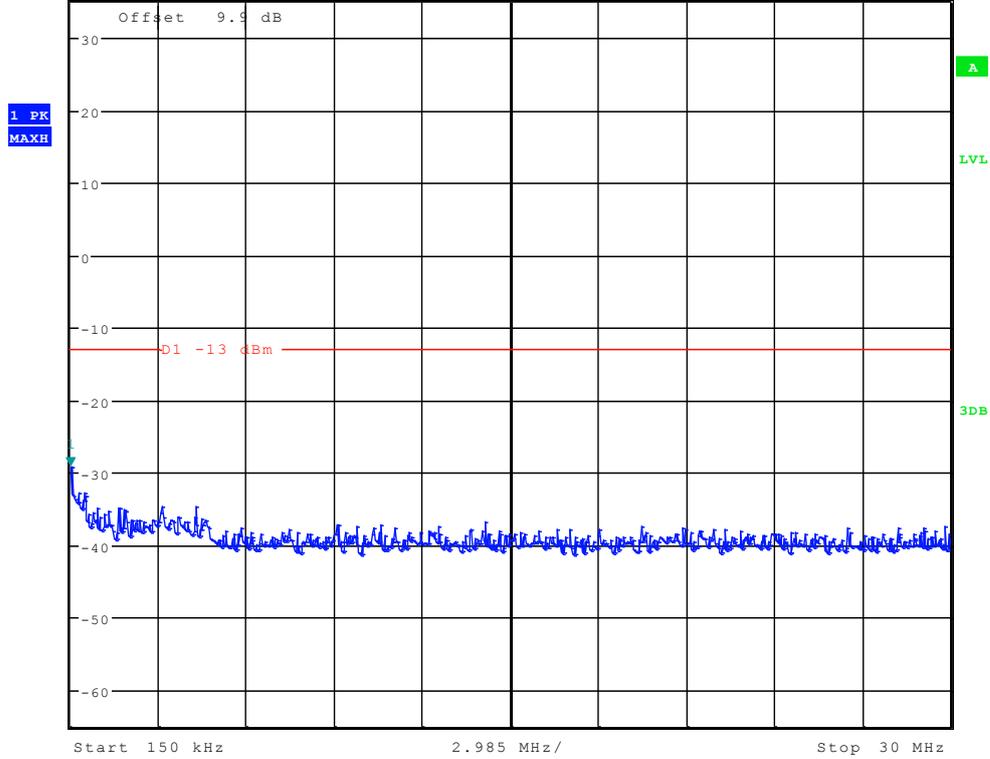


Channel 810



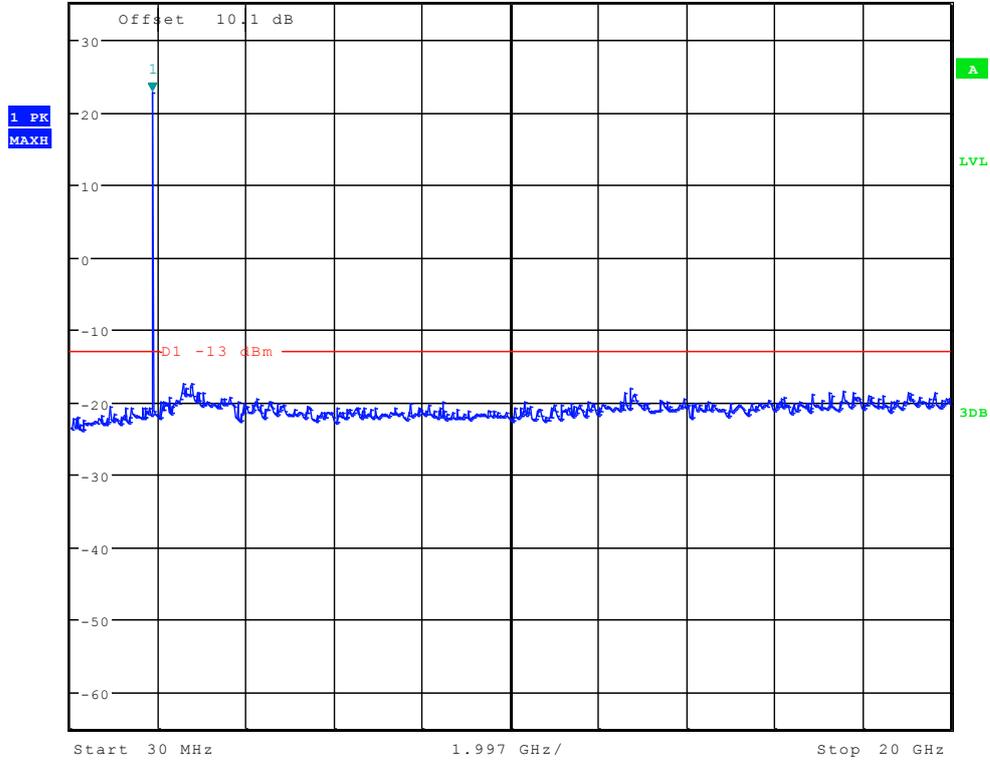


Ref 35 dBm Att 55 dB SWT 300 ms 150.00000000 kHz
*RBW 10 kHz Marker 1 [T1]
*VBW 30 kHz -29.16 dBm



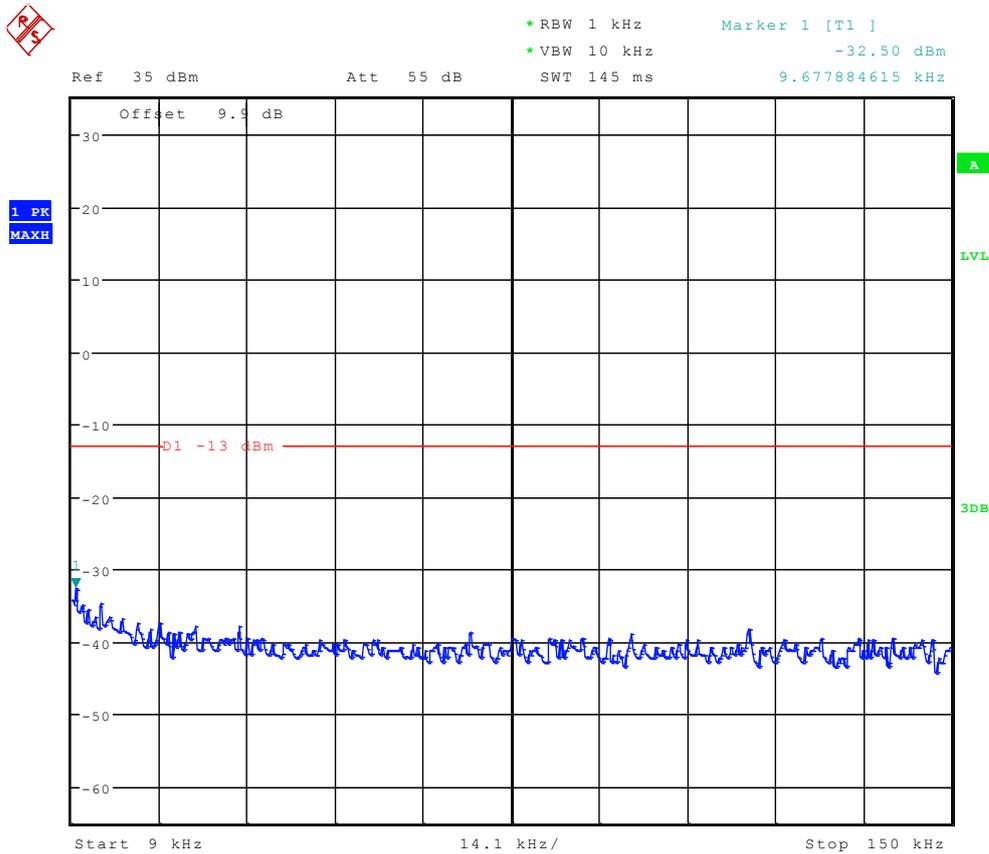


Ref 35 dBm Att 50 dB SWT 115 ms
*RBW 1 MHz Marker 1 [T1] 22.76 dBm
*VBW 3 MHz 1.886185897 GHz



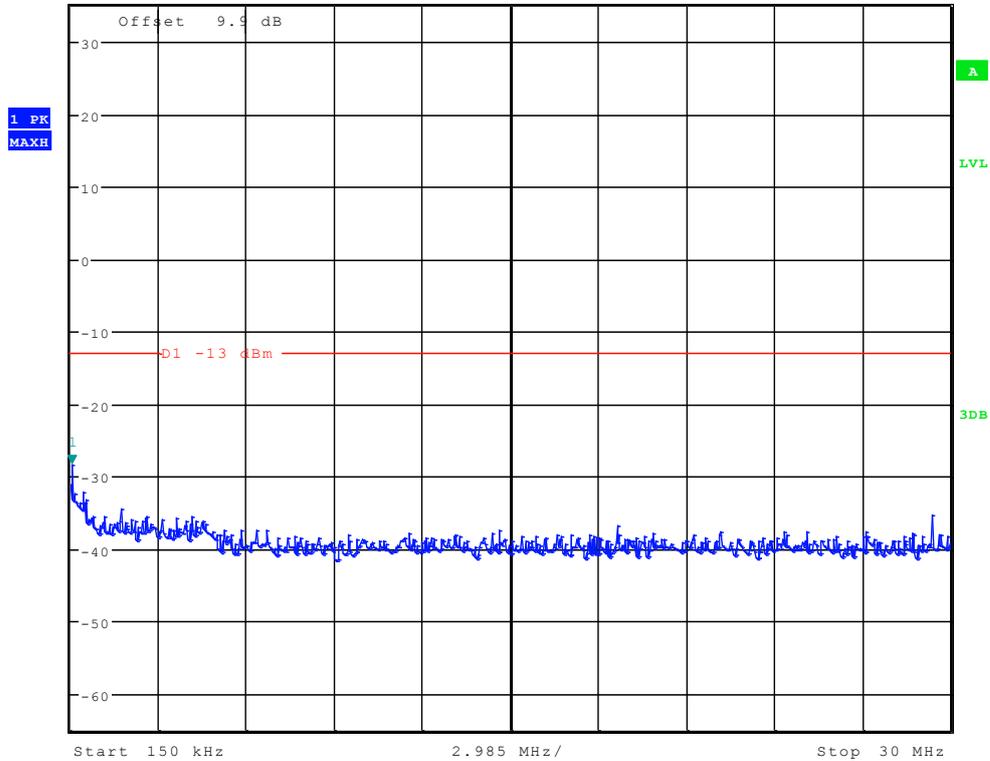


TM2:EDGE Channel 512



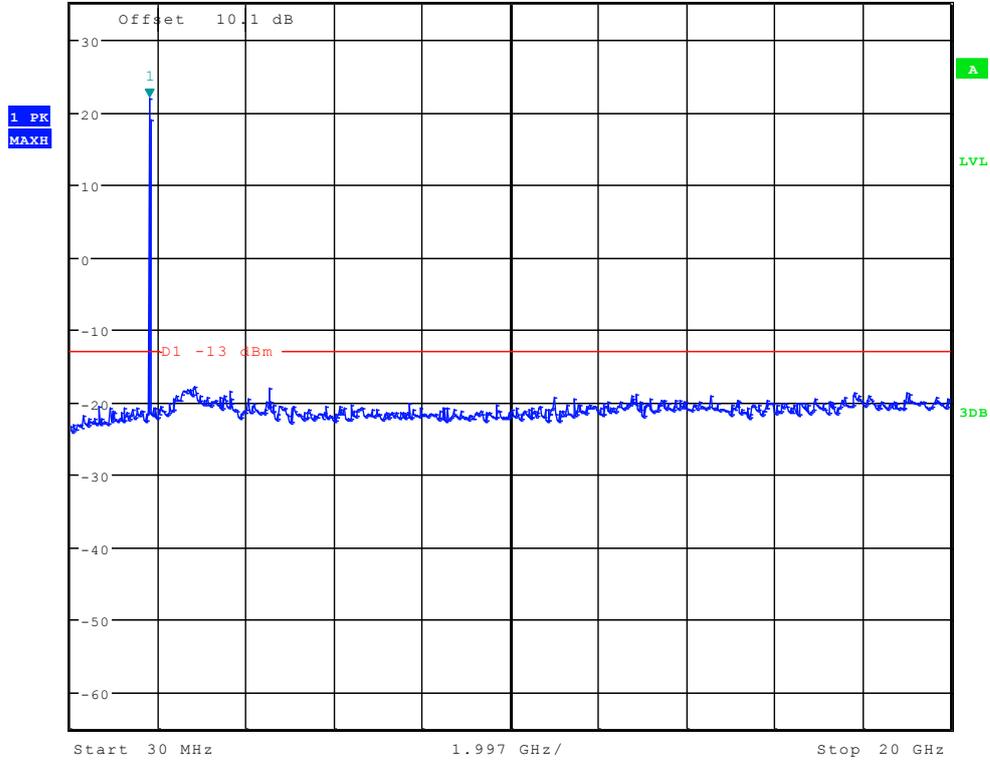


Ref 35 dBm Att 55 dB SWT 300 ms 197.836538462 kHz
*RBW 10 kHz Marker 1 [T1]
*VBW 30 kHz -28.27 dBm





Ref 35 dBm Att 50 dB SWT 115 ms
*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 21.87 dBm
1.822179487 GHz

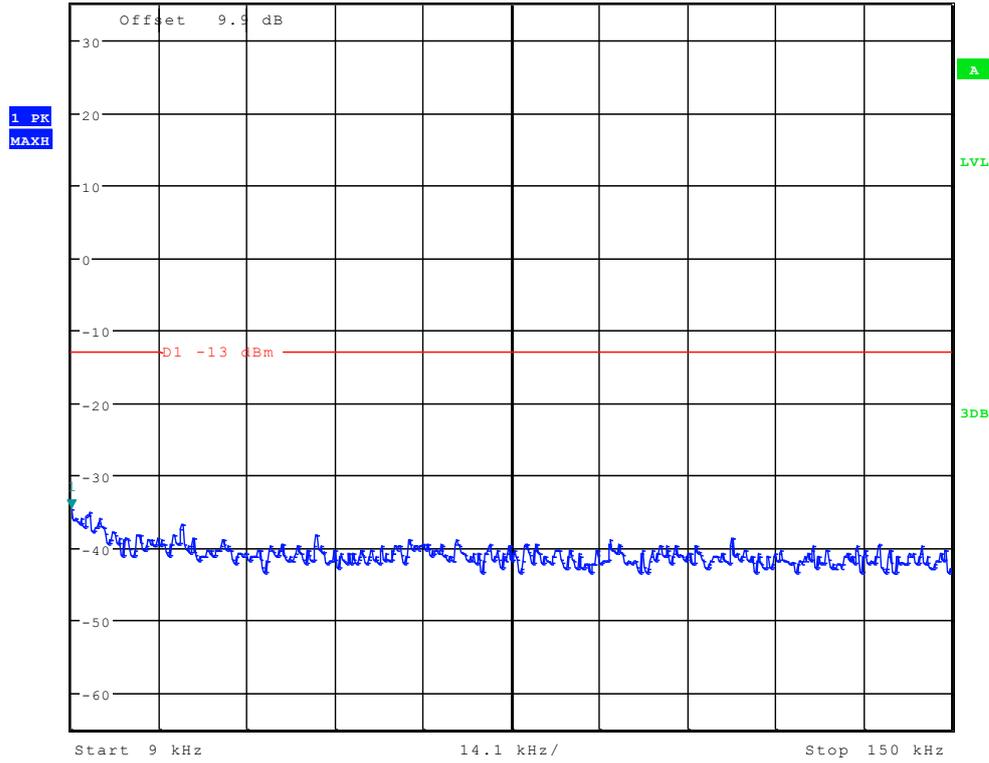




Channel 661

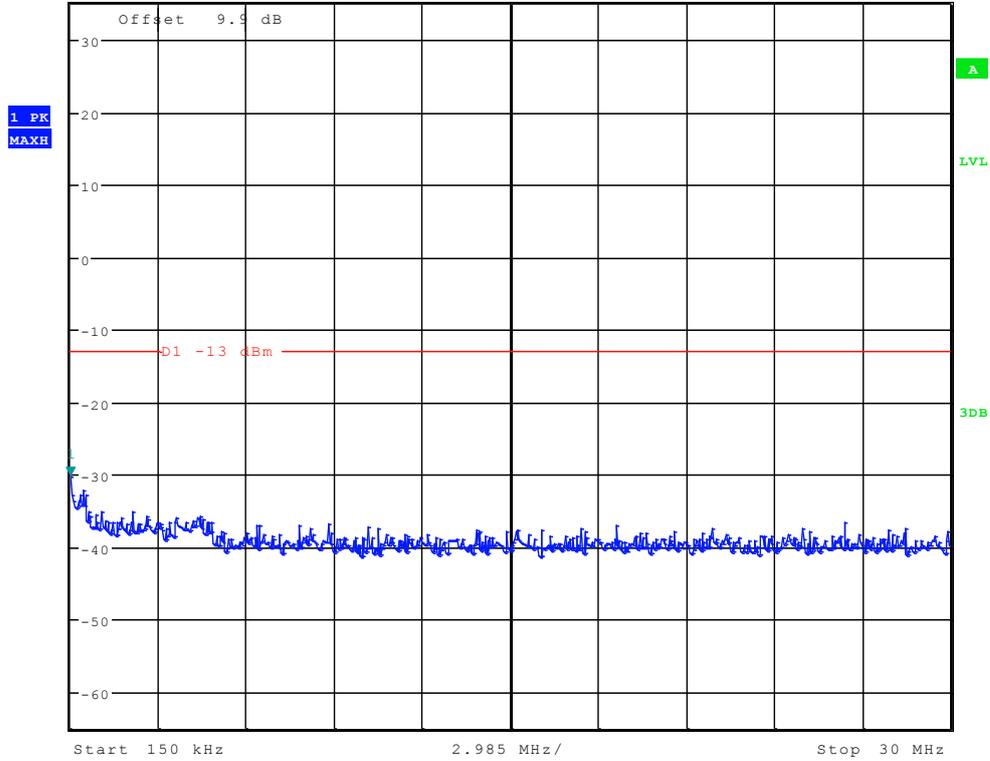


*RBW 1 kHz
 *VBW 10 kHz
 Ref 35 dBm Att 55 dB SWT 145 ms
 Marker 1 [T1] -34.67 dBm
 9.000000000 kHz



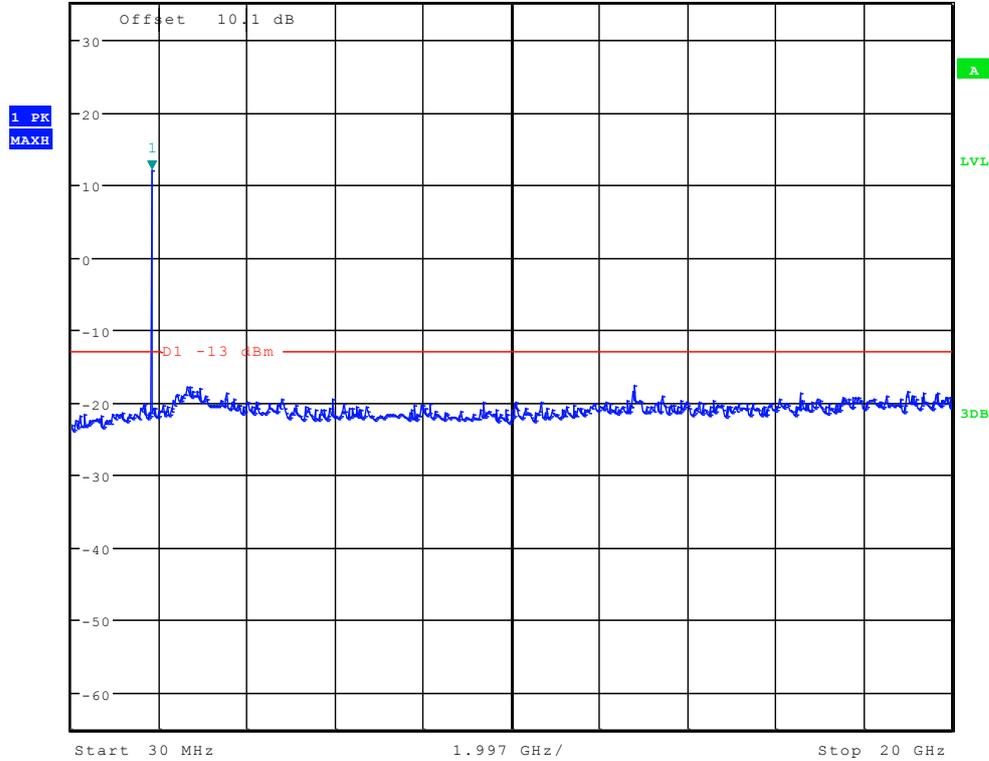


Ref 35 dBm Att 55 dB SWT 300 ms 150.00000000 kHz
*RBW 10 kHz Marker 1 [T1]
*VBW 30 kHz -30.22 dBm



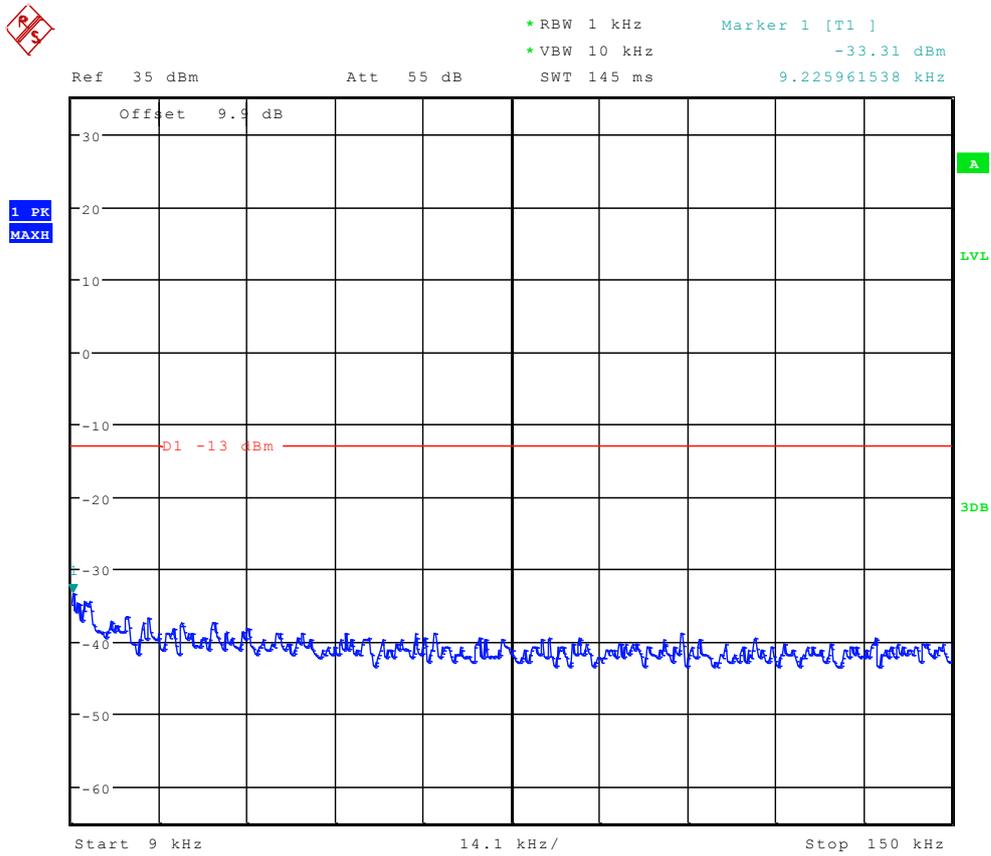


Ref 35 dBm Att 50 dB SWT 115 ms
*RBW 1 MHz Marker 1 [T1] 12.05 dBm
*VBW 3 MHz 1.854182692 GHz



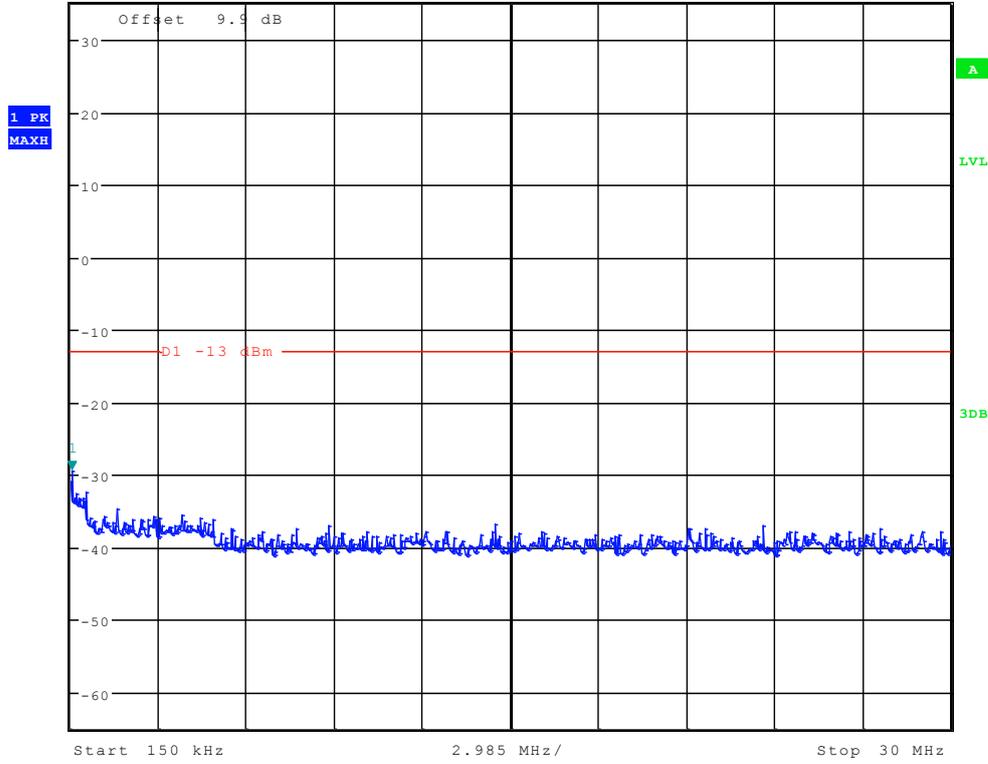


Channel 810



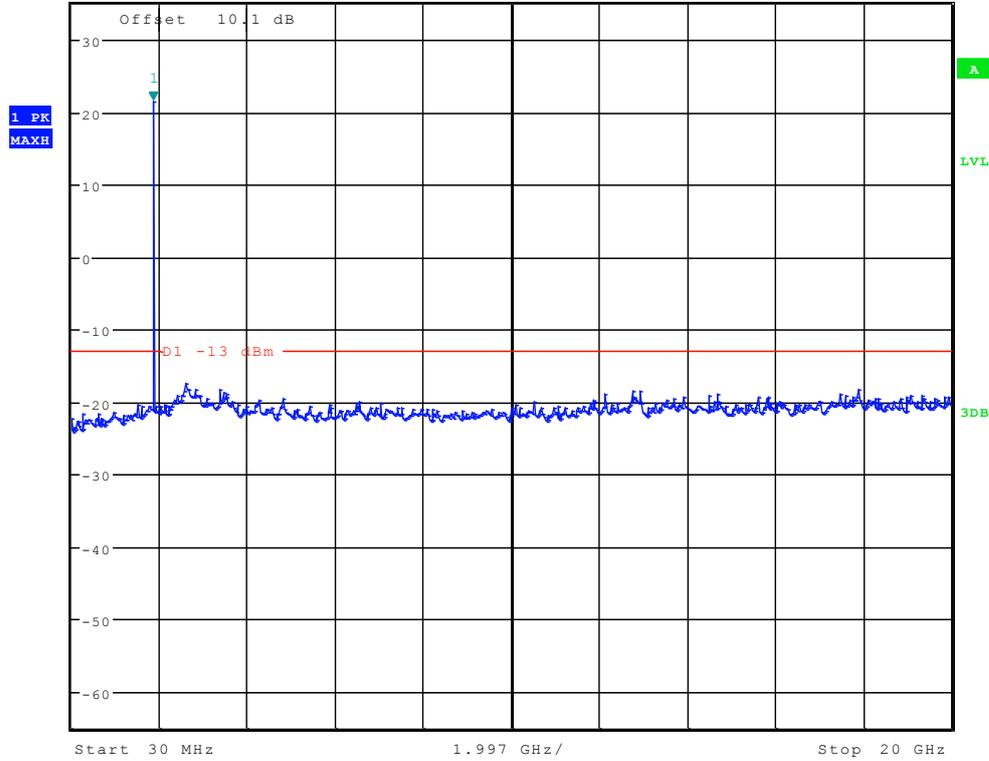


Ref 35 dBm Att 55 dB SWT 300 ms 197.836538462 kHz
*RBW 10 kHz Marker 1 [T1]
*VBW 30 kHz -29.43 dBm





Ref 35 dBm Att 50 dB SWT 115 ms
*RBW 1 MHz Marker 1 [T1] 21.45 dBm
*VBW 3 MHz 1.886185897 GHz



The END



Appendix F

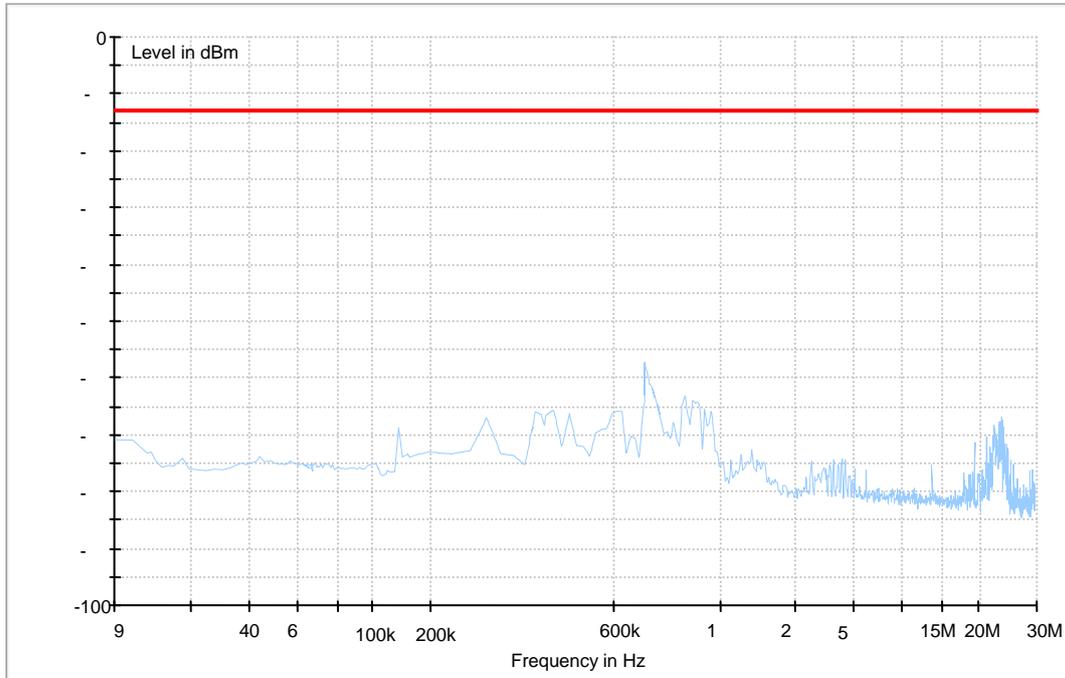
Field Strength of Spurious Emissions

According to FCC Part 2.1053 & Part 24.238



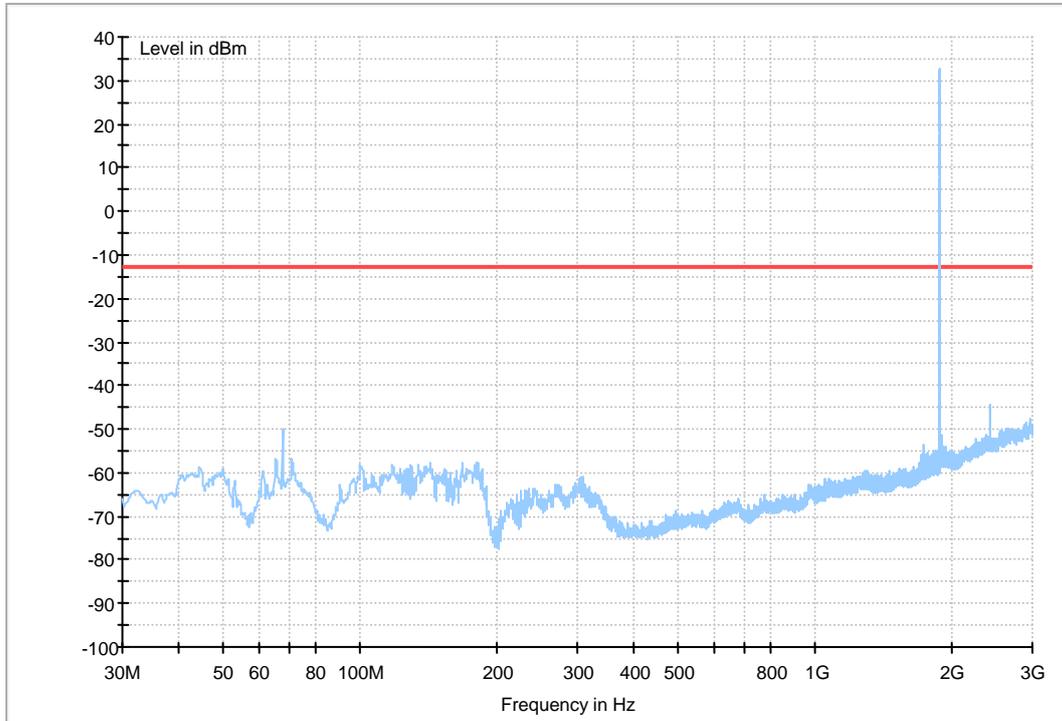
GSM 1900

Traffic Mode (9kHz-30MHz)



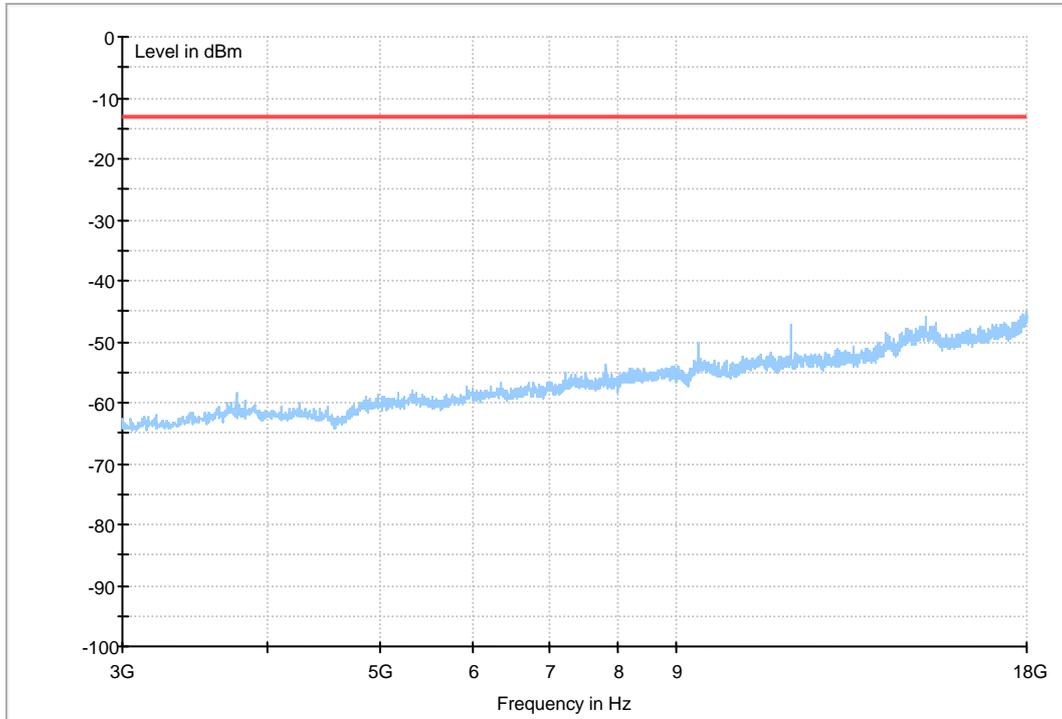


Traffic Mode (30MHz-3GHz)



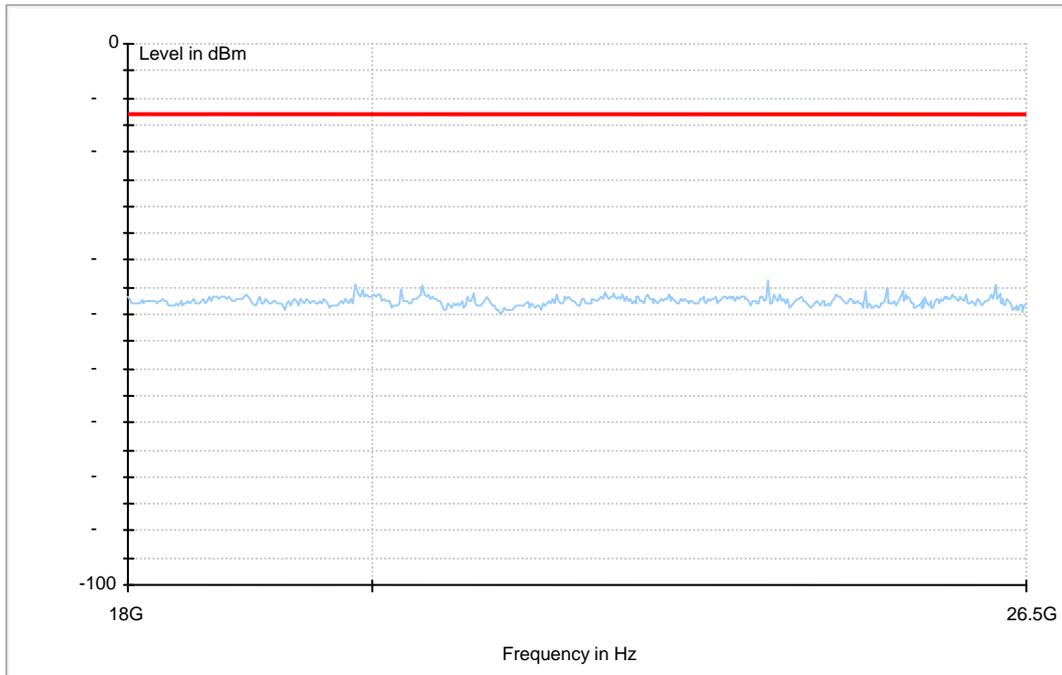


Traffic Mode (3GHz-18GHz)





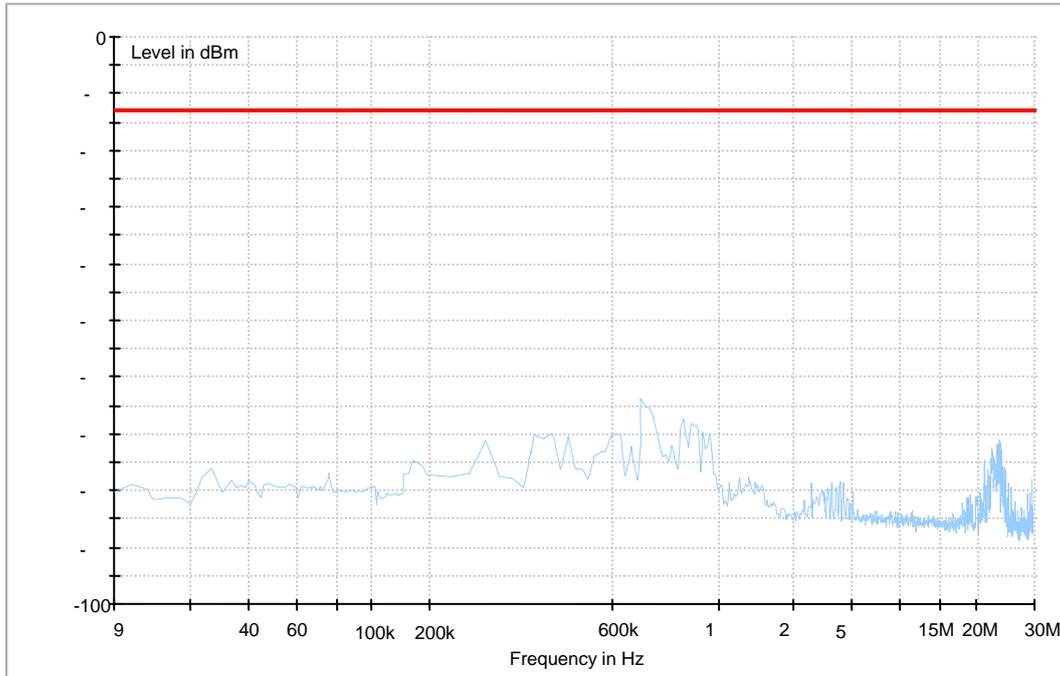
Traffic Mode (18GHz-26.5GHz)





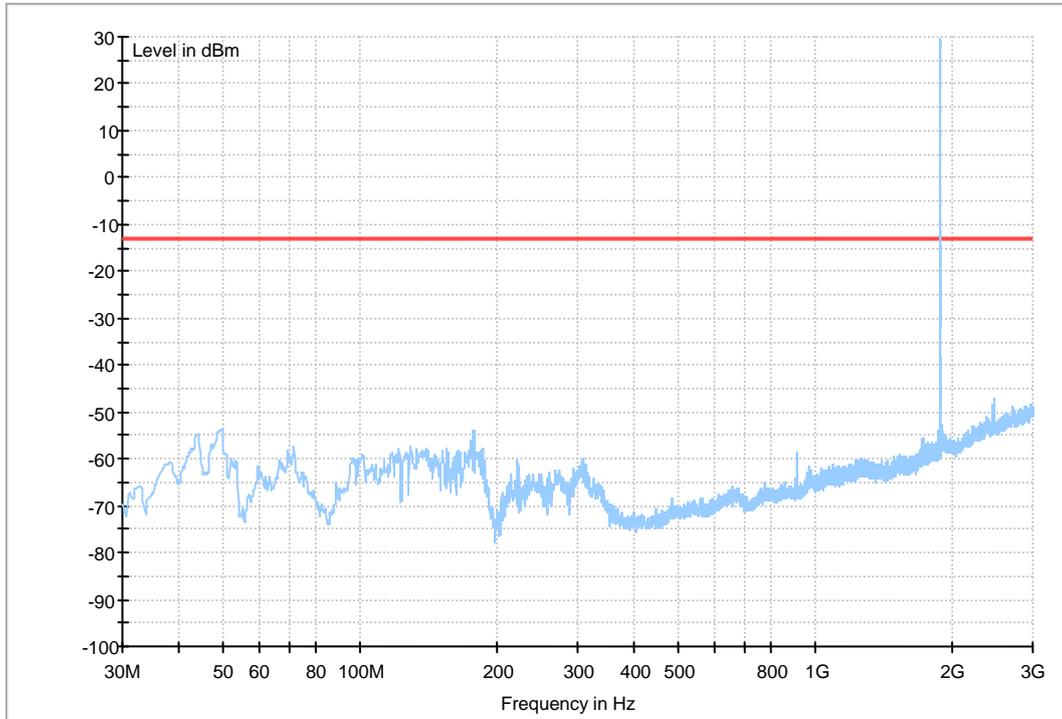
GPRS1900

Traffic Mode (9kHz-30MHz)



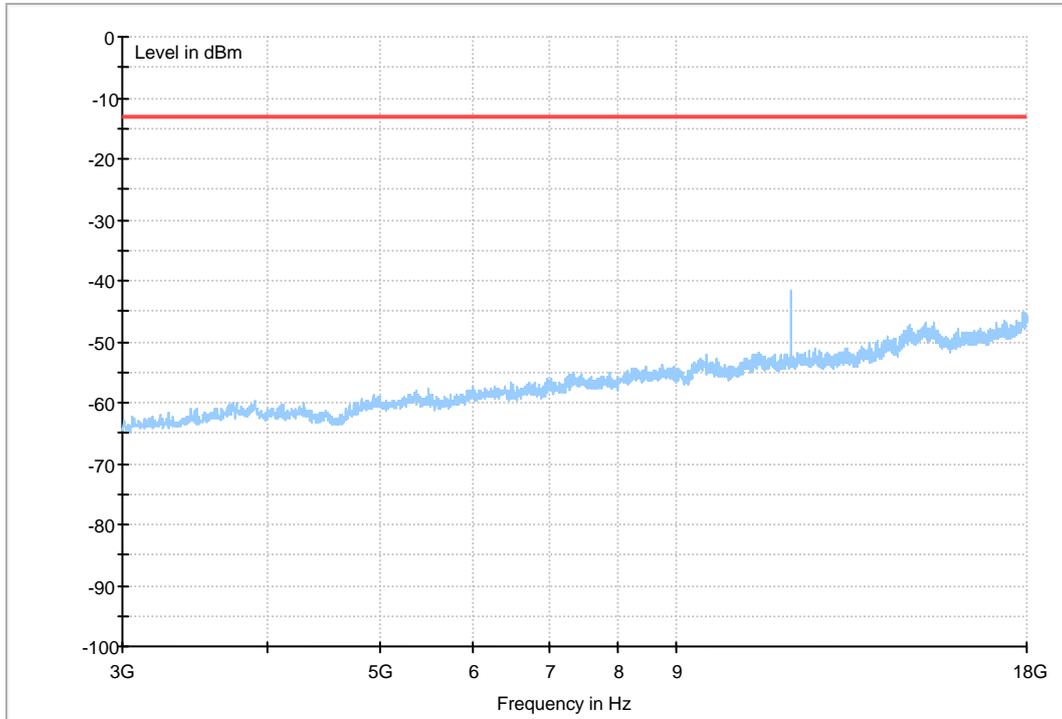


Traffic Mode (30MHz-3GHz)



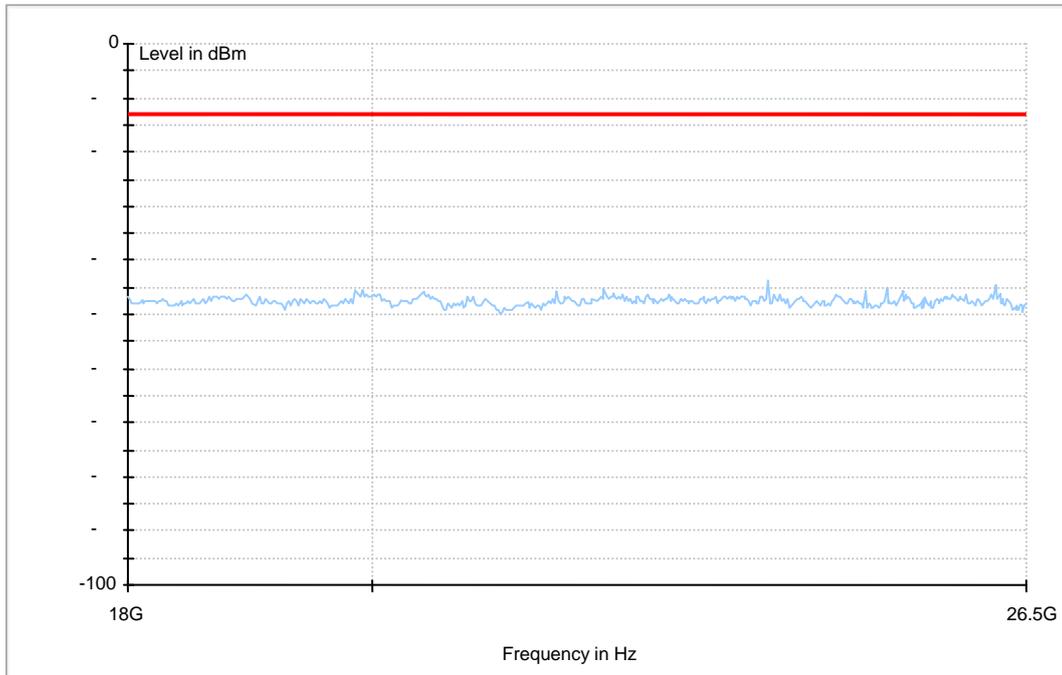


Traffic Mode (3GHz-18GHz)





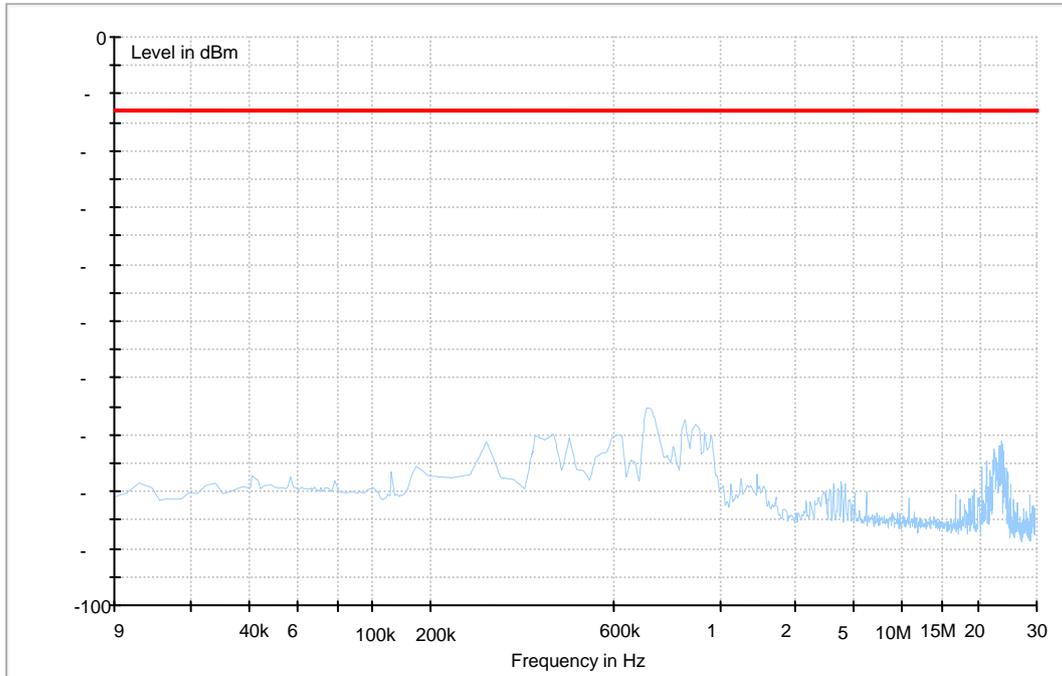
Traffic Mode (18GHz-26.5GHz)





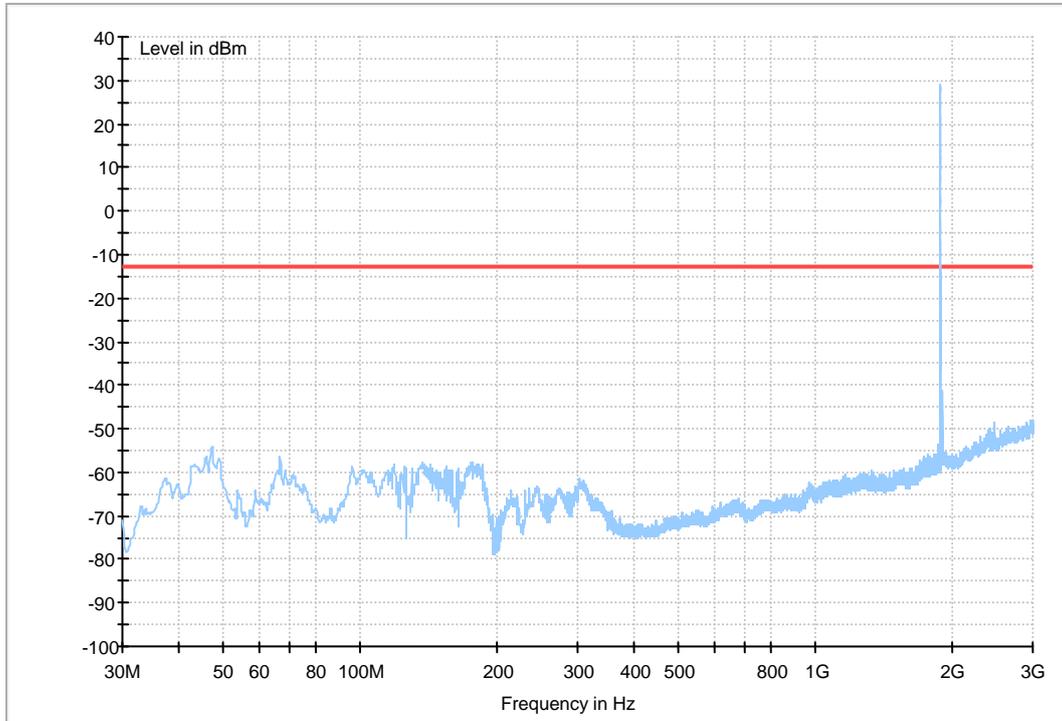
EDGE 1900

Traffic Mode (9kHz-30MHz)



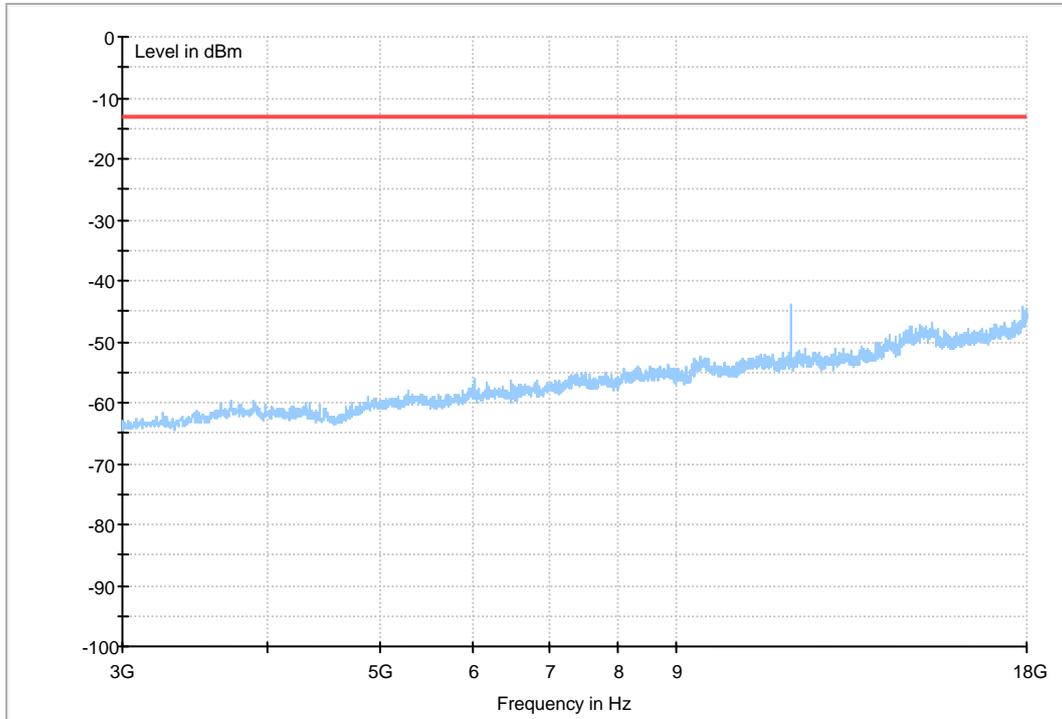


Traffic Mode (30MHz-3GHz)



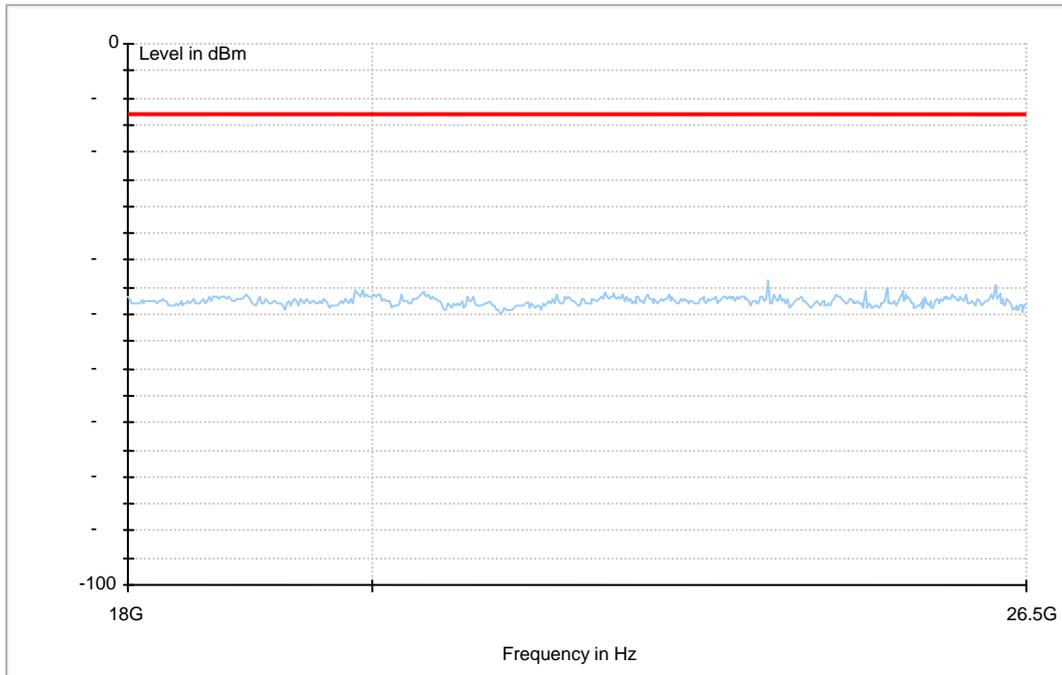


Traffic Mode (3GHz-18GHz)





Traffic Mode (18GHz-26.5GHz)



The END



Appendix G

Frequency Stability

According to FCC Part 2.1055& Part 24.235



Frequency Error vs. Temperature:

Test Mode	RF Ch.	Volt.	Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Limit [ppm]	Verdict
TM 1	M	100%	-30 °C	16	0.008511	---	±2.5	Pass
			-20 °C	-15	-0.00798	---	±2.5	Pass
			-10 °C	19	0.010106	---	±2.5	Pass
			0 °C	-10	-0.00532	---	±2.5	Pass
			10 °C	8	0.004255	---	±2.5	Pass
			20 °C	-13	-0.00691	---	±2.5	Pass
			30 °C	18	0.009574	---	±2.5	Pass
			40 °C	-12	-0.00638	---	±2.5	Pass
TM 2	M	100%	50 °C	11	0.005851	---	±2.5	Pass
			-30 °C	20	0.010638	---	±2.5	Pass
			-20 °C	-14	-0.00745	---	±2.5	Pass
			-10 °C	10	0.005319	---	±2.5	Pass
			0 °C	-17	-0.00904	---	±2.5	Pass
			10 °C	20	0.010638	---	±2.5	Pass
			20 °C	14	0.007447	---	±2.5	Pass
			30 °C	-17	-0.00904	---	±2.5	Pass
TM 3	M	100%	40 °C	18	0.009574	---	±2.5	Pass
			50 °C	-13	-0.00691	---	±2.5	Pass
			-30 °C	-18	-0.00957	---	±2.5	Pass
			-20 °C	-11	-0.00585	---	±2.5	Pass
			-10 °C	7	0.003723	---	±2.5	Pass
			0 °C	12	0.006383	---	±2.5	Pass
			10 °C	-16	-0.00851	---	±2.5	Pass
			20 °C	12	0.006383	---	±2.5	Pass
			30 °C	-19	-0.01011	---	±2.5	Pass
			40 °C	16	0.008511	---	±2.5	Pass
			50 °C	-12	-0.00638	---	±2.5	Pass



Frequency Error vs. Voltage:

Test Mode	RF Ch.	Temp.	Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Limit [ppm]	Verdict
TM 1	M	20 °C	85 %	16	0.008511	---	±2.5	Pass
			100 %	12	0.006383	---	±2.5	Pass
			115 %	-13	-0.00691	---	±2.5	Pass
TM 2	M	20 °C	85 %	-12	-0.00638	---	±2.5	Pass
			100 %	18	0.009574	---	±2.5	Pass
			115 %	10	0.005319	---	±2.5	Pass
TM 3	M	20 °C	85 %	11	0.005851	---	±2.5	Pass
			100 %	19	0.010106	---	±2.5	Pass
			115 %	-11	-0.00585	---	±2.5	Pass

-----The END-----