



RF Test Report

Product Name: cdma2000 Digital Mobile Phone

Model Number: HUAWEI H866C, H866C

Report No: SYBH(Z-RF)005052012-2008

FCC ID: QISM866

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.
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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: May.09, 2012
Start Date of Test: May.10, 2012
End Date of Test: May.22, 2012

Test Result: Pass

Approved By Senior Engineer

May.24, 2012
Date

Dai Linjun
Name

Dai Linjun
Signature

Reviewed By

May.24, 2012
Date

Cousy Xu
Name

Cousy XU
Signature

Operator

May.24, 2012
Date

Huang Qiuliang
Name

Huang Qiuliang
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

PCS Band			
Test Case	FCC Part No.	Requirements	Result
Transmitter Output Power	2.1046 & 24.232	Peak EIRP not exceed 2 W Peak-to-average ratio not exceed 13 dB	Pass
Modulation Characteristics	2.1047	Digital modulation	Pass
Occupied Bandwidth	2.1049	(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

cdma2000 Digital Mobile Phone HUAWEI H866C, H866C is subscriber equipment in the CDMA/EVDO system. The frequency band is US Cellular and N. American PCS, PCS band test data included in this report. The Mobile Phone implements such functions as RF signal receiving/transmitting, CDMA2000 1x and 1xEV-DO protocol processing, voice, MMS service, GPS, AGPS and WIFI etc. Externally it provides micro SD card interface, earphone port (to provide voice service). 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.

3.1.2 Board

Table 1 Board Information

cdma2000 Digital Mobile Phone		
HUAWEI H866C, H866C		
Main board		
Software Version	Hardware Version	S/N
M866V100R001C289B815	HC1C8655M	N3L01A9242600128

3.1.3 Adapter

AC/DCAdapter Model	HW-050100U1W
Manufacturer	Huawei Technologies Co., Ltd.
Input Voltage	~100-240V 50/60Hz 0.2A
Output Voltage	5V  1A
Rated Power	5W

3.1.4 Battery Technical Data

Name	Manufacture	Description
Rechargeable Li-ion	Huawei Technologies Co., Ltd.	Battery Model: HB5K1H Rated capacity: 1400mAh 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 1910MHz

4.2 Transmitter / Receiver Characteristics

Characteristics	Description
System Type	CDMA
TX Output Power (per Antenna Port)	CDMA system: 24 dBm
Channel Spacing(s) / Bandwidth(s)	CDMA system: 1.23 MHz (Cellular band) 1.25 MHz (Other than Cellular band)
Designation of Emissions	CDMA system: 1M29F9W (Cellular band) 1M29F9W (Other than Cellular band)

4.3 Antenna Gain

Antenna Gain(dBi)	-0.7
-------------------	------

4.4 Power Supply

	Description
Power Supply Type	Directly Connected to DC /AC Power Supply
Input to EUT (DC power)	DC Voltage Nominal:  +3.7V DC Voltage Range:  +3.6 V to +4.2V
Input to EUT (AC power)	AC Voltage Nominal: ~ 120V (50/60 Hz) AC Voltage Range: ~ 100V-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/TM3/ Subtype 0/ Subtype 2	TX	Channel 25	Channel 600	Channel 1175
		1851.25MHz	1880.0MHz	1908.75MHz
	RX	Channel 25	Channel 600	Channel 1175
		1931.25MHz	1960.0MHz	1988.75MHz

5.2 Test Modes

Test Mode	Test Modes Description
TM1/TM3	CDMA2000 1x
Subtype 0/ Subtype 2	CDMA2000 1x EV-DO

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

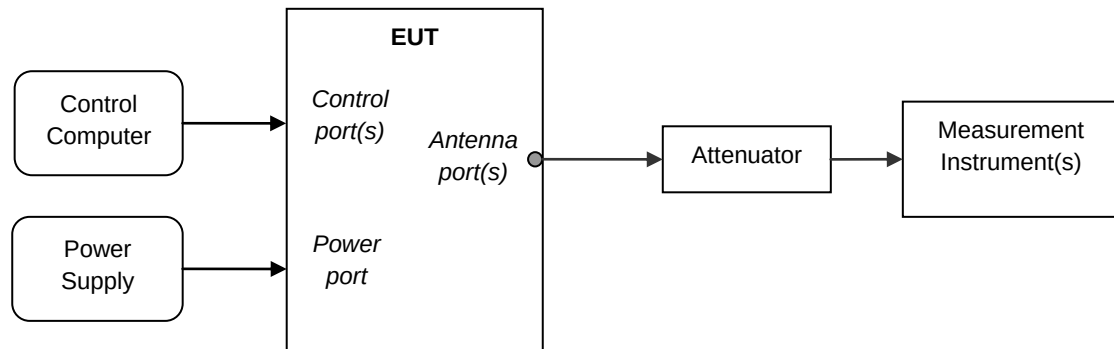
NOTE: VL= lower extreme test voltages
VN= nominal voltage
VH= upper extreme test voltage
TN= normal temperature

5.4 Test Setups

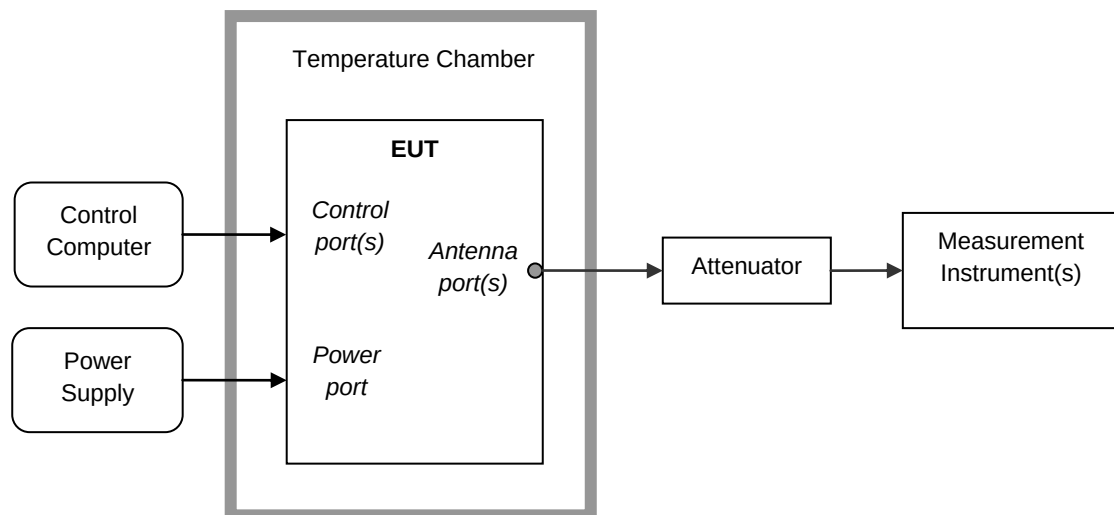
5.4.1 General Test Setup Configurations

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



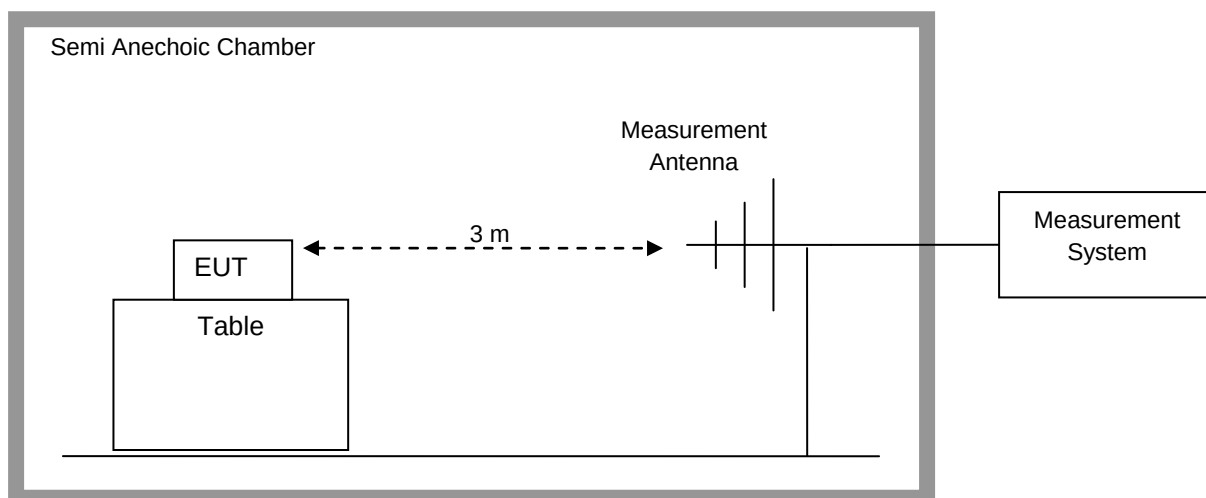
5.4.3 Test Setup 2



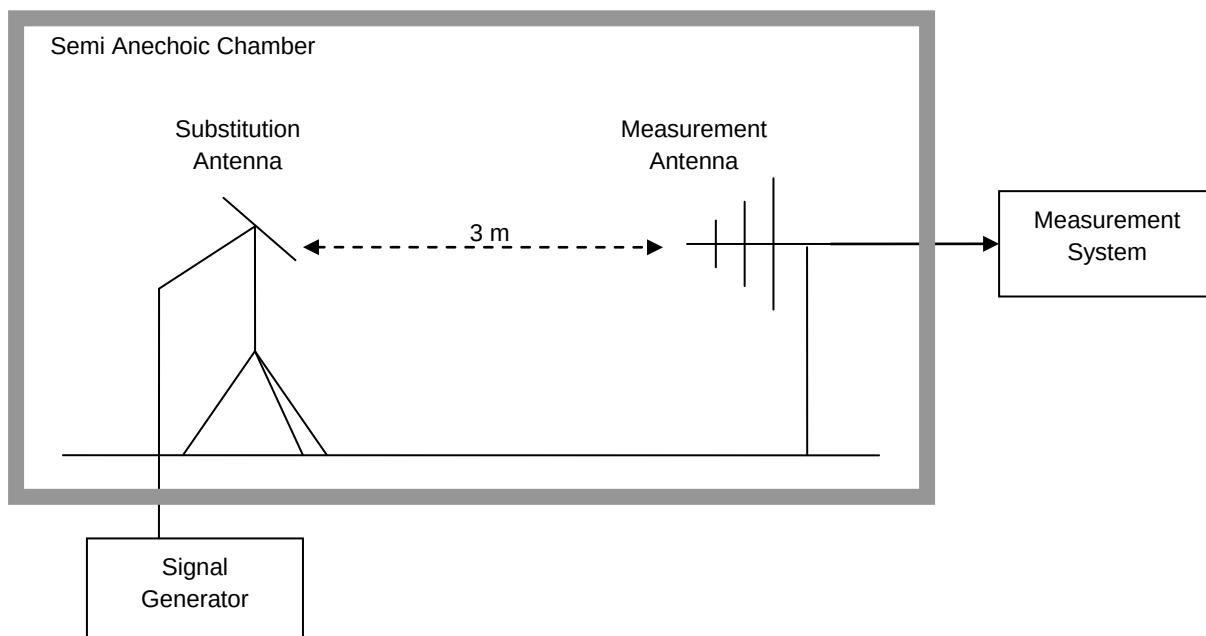
5.4.4 Test Setup 3

NOTE: Efficient 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/TM3/ Subtype 0/ Subtype 2
Modulation Characteristics	Test Configuration	Ambient Temperature & Rated Voltage
	Test Setup	Test Setup 1
	RF Channels (TX)	M
	Test Mode	TM1/TM3/ Subtype 0/ Subtype 2
Occupied Bandwidth	Test Configuration	Ambient Temperature & Rated Voltage
	Test Setup	Test Setup 1
	Detector	PK
	RF Channels (TX)	B, M, T
	Test Mode	TM1/TM3/ Subtype 0/ Subtype 2
Band Edges Compliance	Test Configuration	Ambient Temperature & Rated Voltage
	Test Setup	Test Setup 1
	Detector	RMS
	RF Channels (TX)	B, T
	Test Mode	TM1/TM3/ Subtype 0/ Subtype 2
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/TM3/ Subtype 0/ Subtype 2
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/TM3/ Subtype 0/ Subtype 2
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 Case	Test Conditions	
	Test Setup	Test Setup 2
	RF Channels (TX)	M
	Test Mode	TM1/TM3/ Subtype 0/ Subtype 2

6 Main Test Instruments

Table 2 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	Jul.17,2012
Signal Analyzer	R&S	FSQ31	200021	Sep.27,2012
Temperature Chamber	WEISS	WKL64	24600294	Feb.13,2013
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.14, 2013
Horn Antenna	R & S	HF906	100684	Jul.01, 2012
Broadband Antenna	Schwarzbeck	VULB 9163	9163-357	May.14, 2013
Broadband Antenna	Schwarzbeck	VULB 9163	9163-356	May.14, 2013
Universal Radio Communication Tester	R & S	CMW500	20347676	Sep.07,2012
Universal Radio Communication Tester	Anritsu	MT8820C	6200971028	May.04, 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 Radiated Spurious Emissions	Appendix H

NOTE: The Appendix H only photos of Radiated Spurious Emissions, 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 & Part 24.232



Conducted Power of Transmitter

Table 1 Measurement Results

TEST CONDITIONS (TN/VN)	RF Output Power(Conducted)					
	Channel 25(B) 1851.25MHz		Channel 600(M) 1880.0MHz		Channel 1175(T) 1908.75MHz	
	dBm		dBm		dBm	
	Measured	Limit	Measured	Limit	Measured	Limit
TM1	23.32	33.0	23.15	33.0	23.13	33.0
TM3	23.35	33.0	23.14	33.0	23.12	33.0
Subtype 0	23.15	33.0	22.94	33.0	22.95	33.0
Subtype 2	23.28	33.0	23.15	33.0	23.16	33.0



Peak-to-Average Ratio

Table 1 Measurement Results(CDMA)

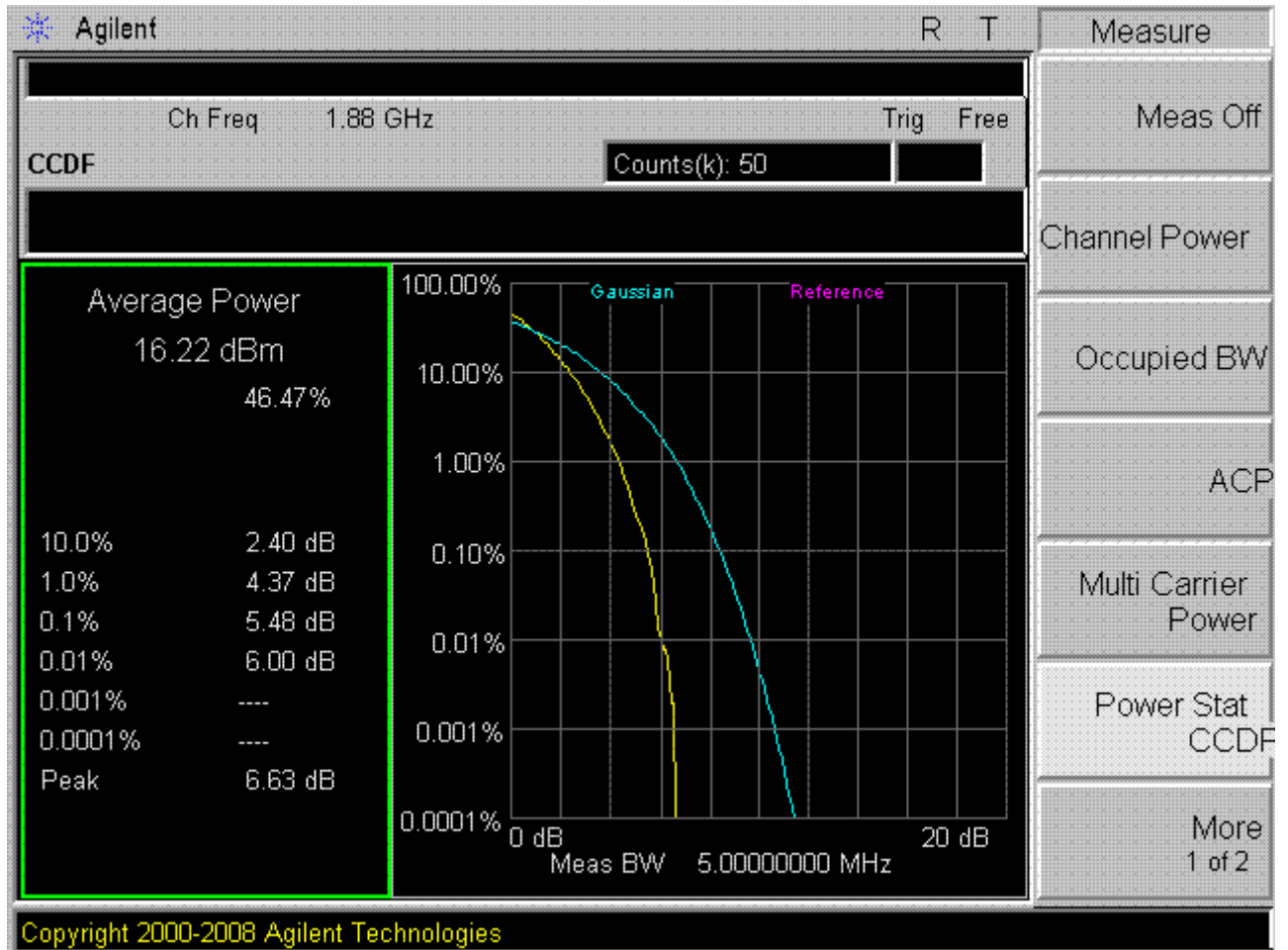
TEST CONDITIONS (TN /VN)						
	Channel 25(B) 1851.25MHz		Channel 600(M) 1880.0MHz		Channel 1175(T) 1908.75MHz	
	dB		dB		dB	
	Measure d	Limit	Measure d	Limit	Measure d	Limit
TM1	6.52	13.0	6.63	13.0	6.51	13.0
TM3	6.48	13.0	6.49	13.0	6.49	13.0
Subtype 0	6.43	13.0	6.53	13.0	6.44	13.0
Subtype 2	6.37	13.0	6.49	13.0	6.46	13.0



Test Plot of Peak-to-Average Ratio

Note: All relevant operation modes have been tested, and the worst case Plot is included in this report.

CDMA





EVDO





Effective Isotropic Radiated Power of Transmitter (EIRP)

Table 2 Substitution Results

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	1851.25	22.62	Horn Ant.	19.23	4.5	1	22.73	33	Pass
TM1	1880.0	22.45	Horn Ant.	19.01	4.5	1	22.51	33	Pass
TM1	1908.75	22.43	Horn Ant.	18.72	4.8	1	22.52	33	Pass
TM3	1851.25	22.65	Horn Ant.	19.26	4.5	1	22.76	33	Pass
TM3	1880.0	22.44	Horn Ant.	19.06	4.5	1	22.56	33	Pass
TM3	1908.75	22.42	Horn Ant.	18.84	4.8	1	22.64	33	Pass
Subtype 0	1851.25	22.45	Horn Ant.	19.11	4.5	1	22.61	33	Pass
Subtype 0	1880.0	22.24	Horn Ant.	18.85	4.5	1	22.35	33	Pass
Subtype 0	1908.75	22.25	Horn Ant.	18.58	4.8	1	22.38	33	Pass
Subtype 2	1851.25	22.58	Horn Ant.	19.16	4.5	1	22.66	33	Pass
Subtype 2	1880.0	22.45	Horn Ant.	19.19	4.5	1	22.69	33	Pass
Subtype 2	1908.75	22.46	Horn Ant.	18.79	4.8	1	22.59	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

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



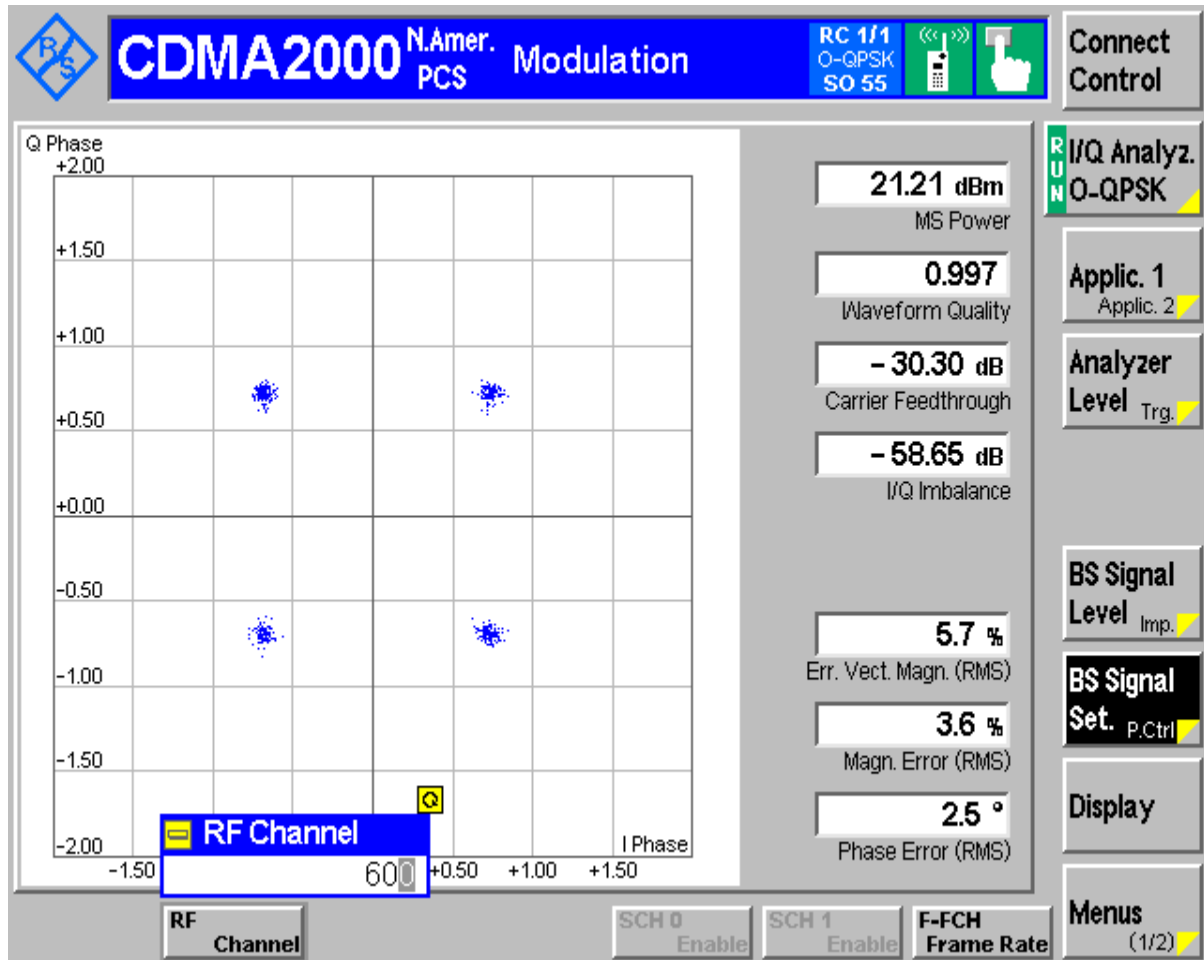
Appendix B

Modulation Characteristics

According to FCC Part 2.1047& Part 24 Subpart E

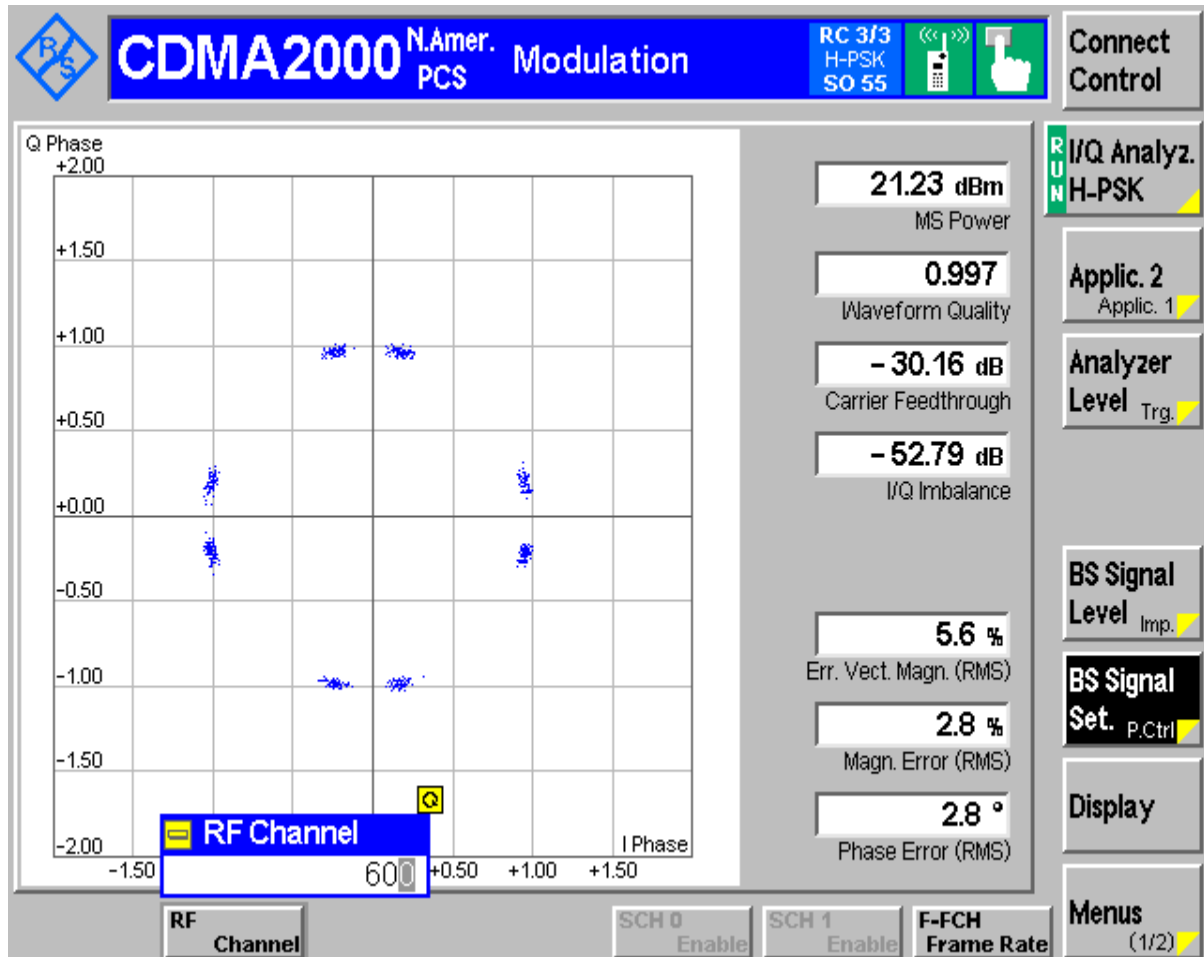


Channel 600 (TM1)



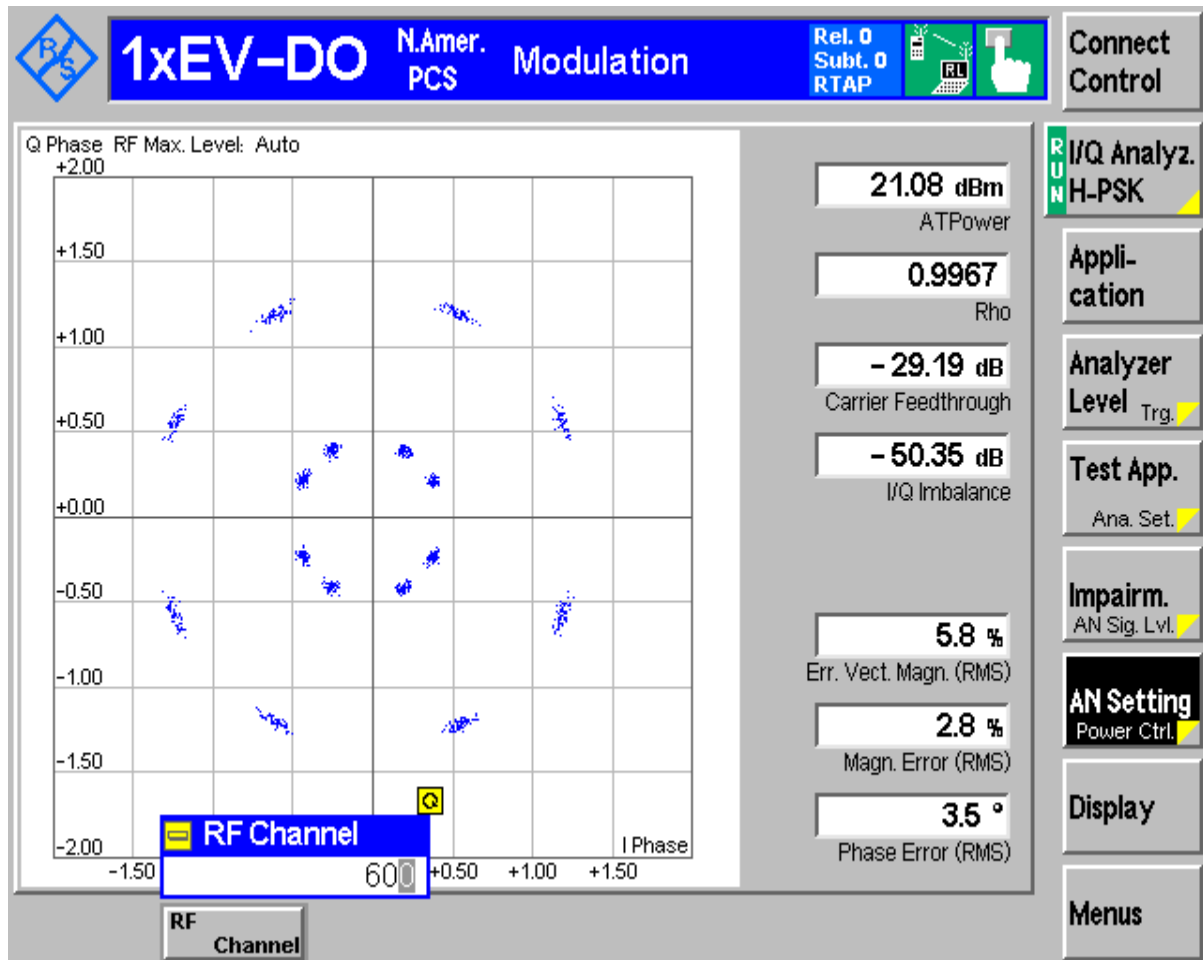


Channel 600 (TM3)





Channel600 (Subtype 0) (HPSK)

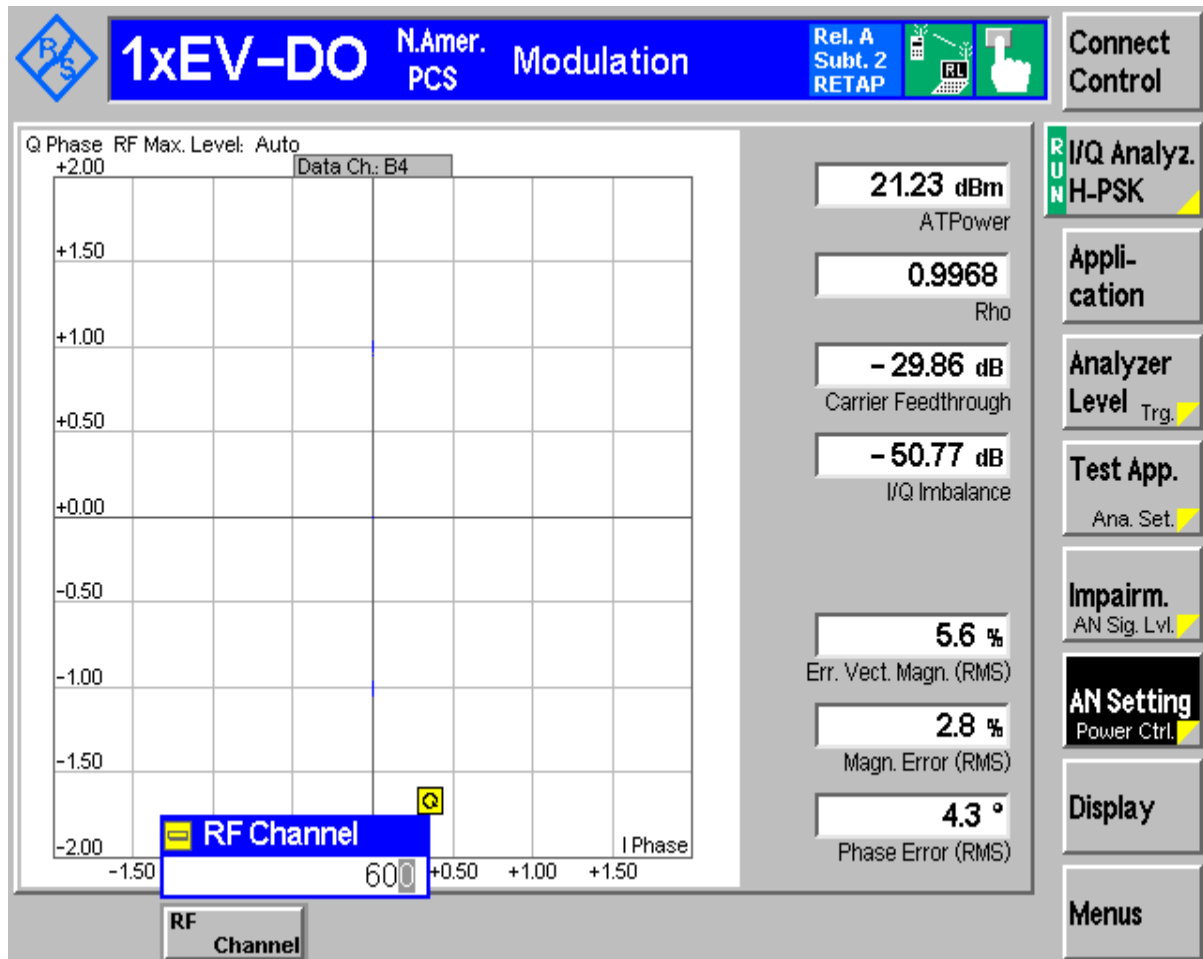




Channel600 (Subtype 2)

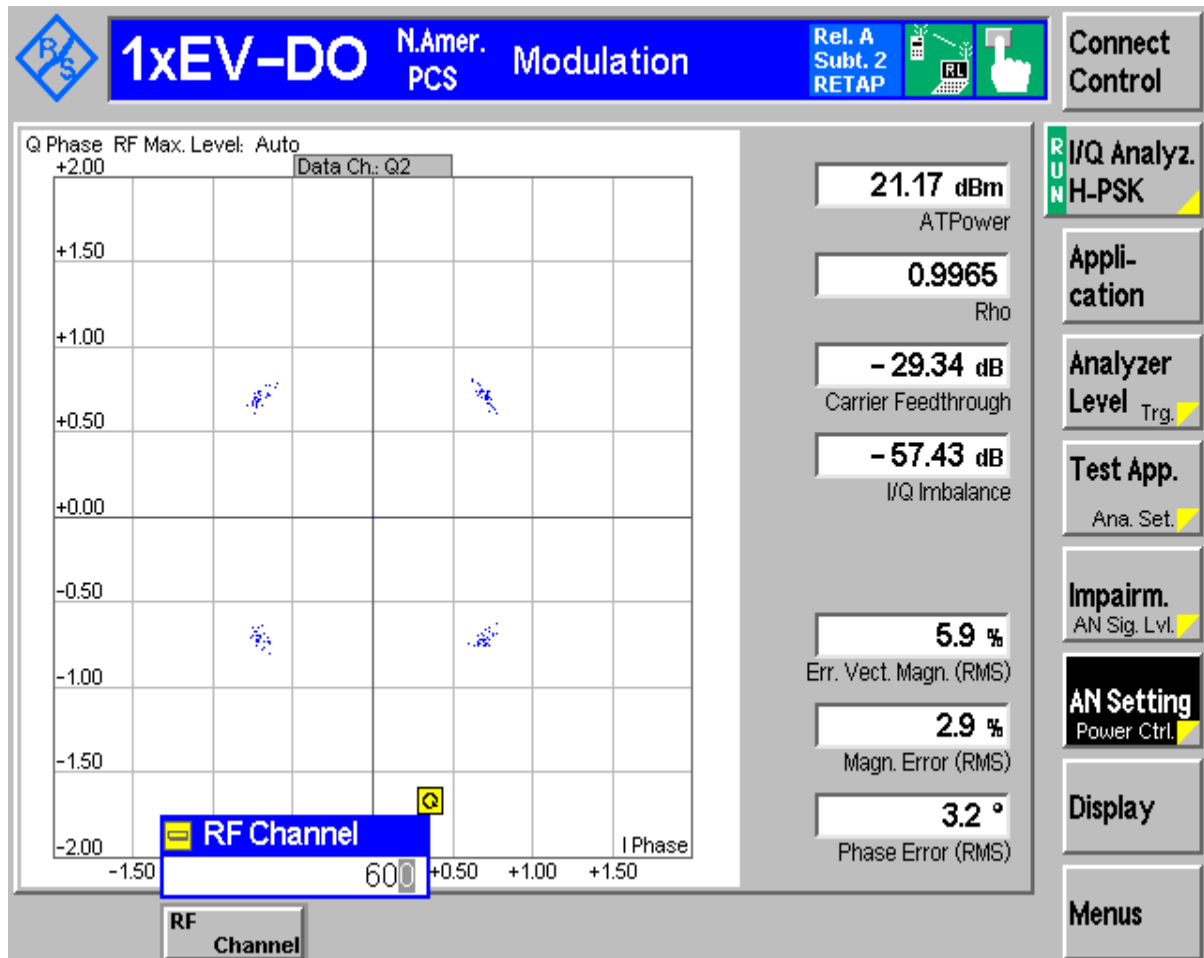
The R-Data packet size determines the modulation format:

R-Data Pkt Size (256 bits)
(BPSK)



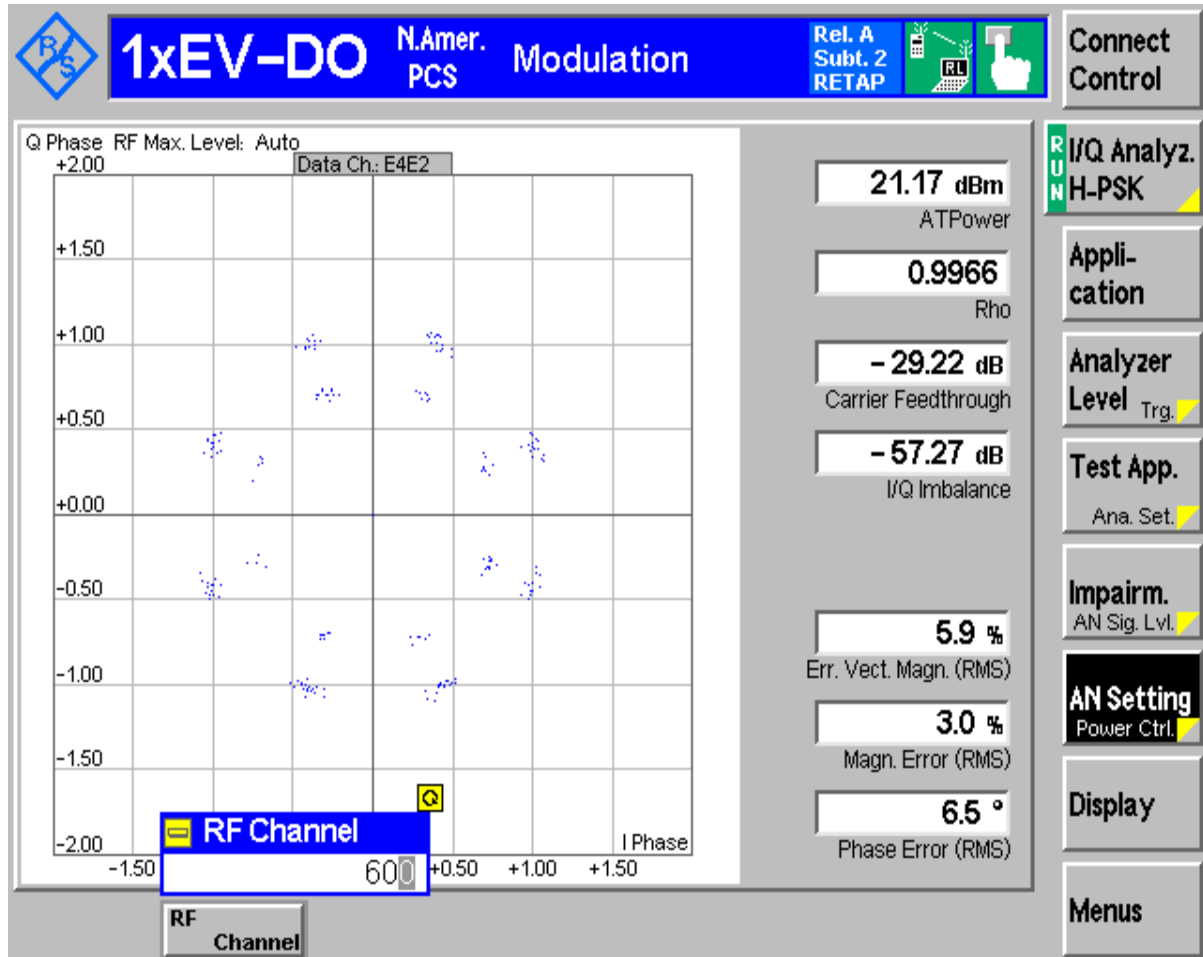


R-Data Pkt Size (4096 bits)
(QPSK)





R-Data Pkt Size (12288 bits)
(8PSK)



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



Appendix C

Occupied Bandwidth According to FCC part 2.1049 & Part 24 Subpart E

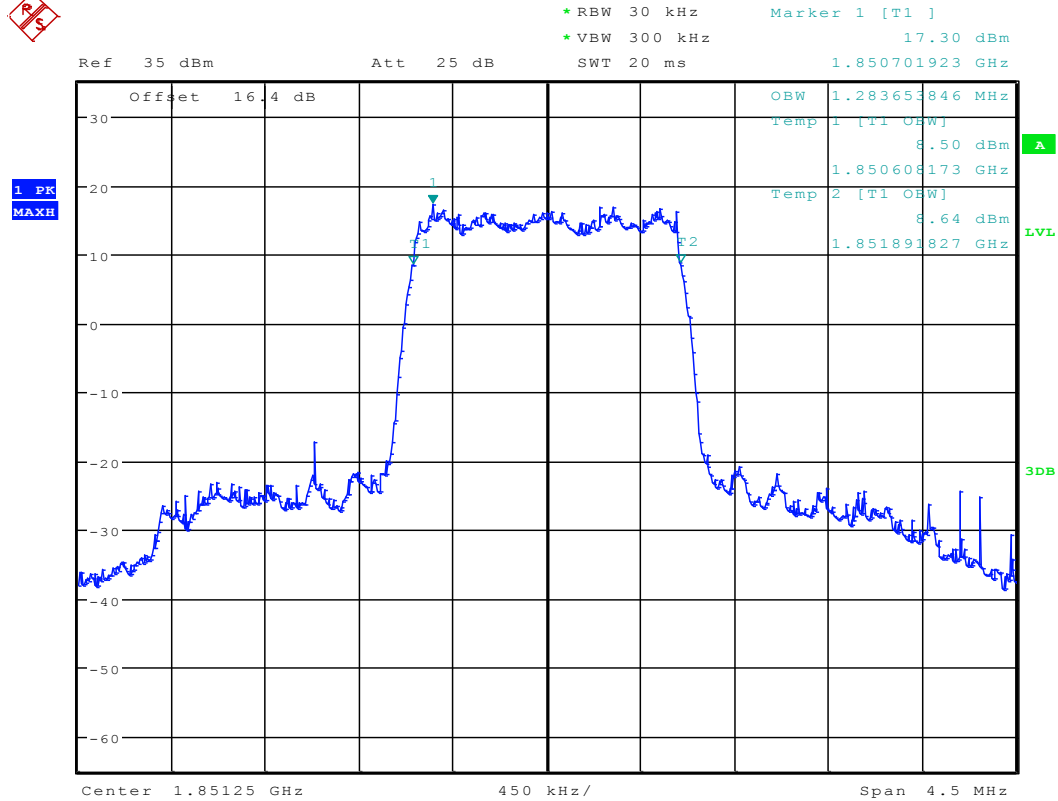


Result Table

Test Mode	RF Channel	Occupied Bandwidth [MHz]	Verdict
TM1	B	1.284	Pass
	M	1.284	Pass
	T	1.284	Pass
TM3	B	1.284	Pass
	M	1.291	Pass
	T	1.284	Pass
Subtype 0	B	1.280	Pass
	M	1.280	Pass
	T	1.274	Pass
Subtype 2	B	1.280	Pass
	M	1.286	Pass
	T	1.280	Pass



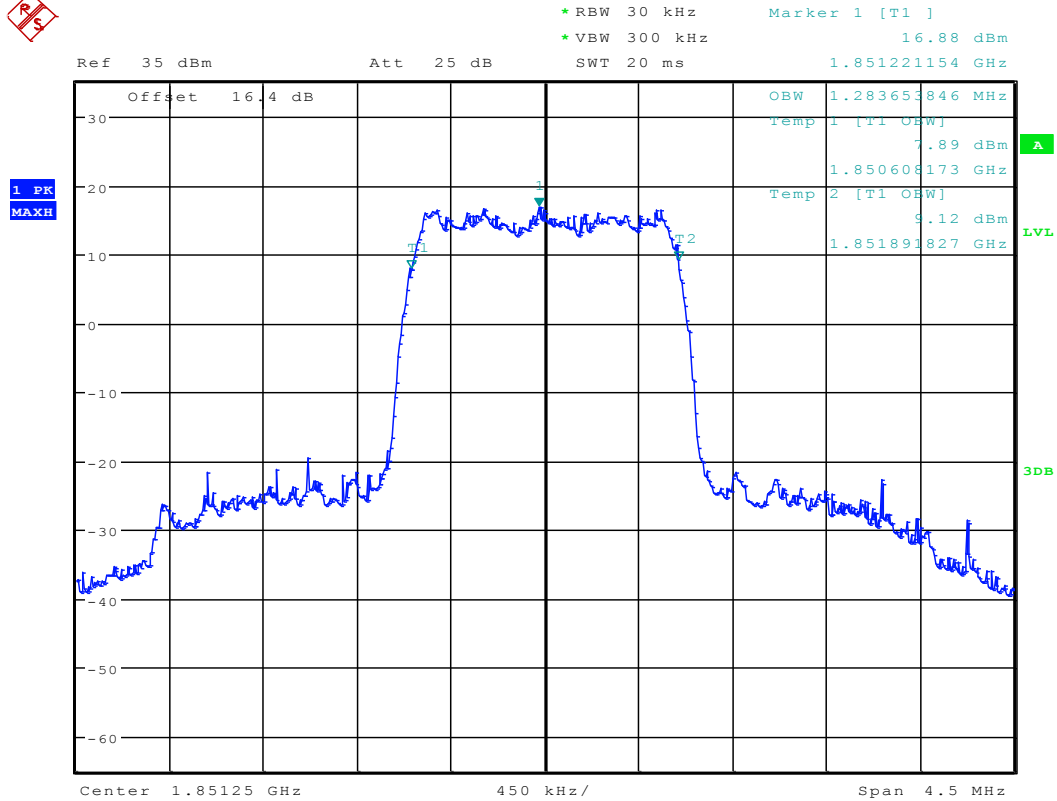
Channel 25 (TM1)



Date: 27.APR.2012 01:17:09



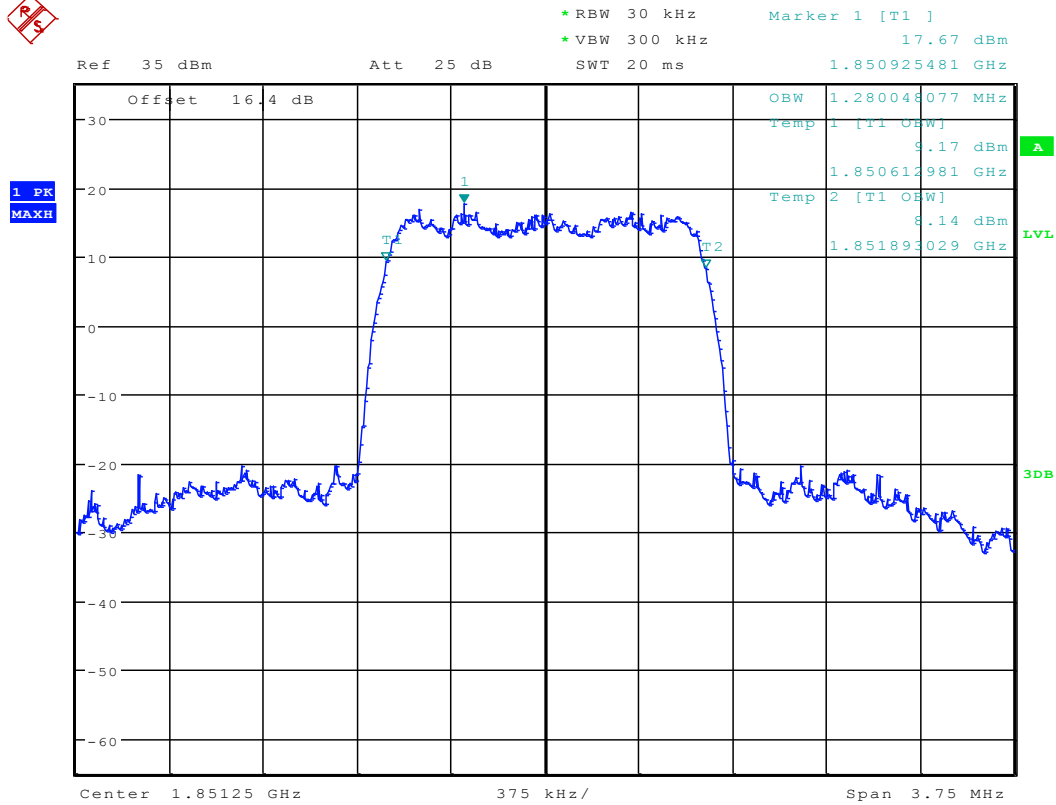
Channel 25 (TM3)



Date: 27.APR.2012 01:17:52



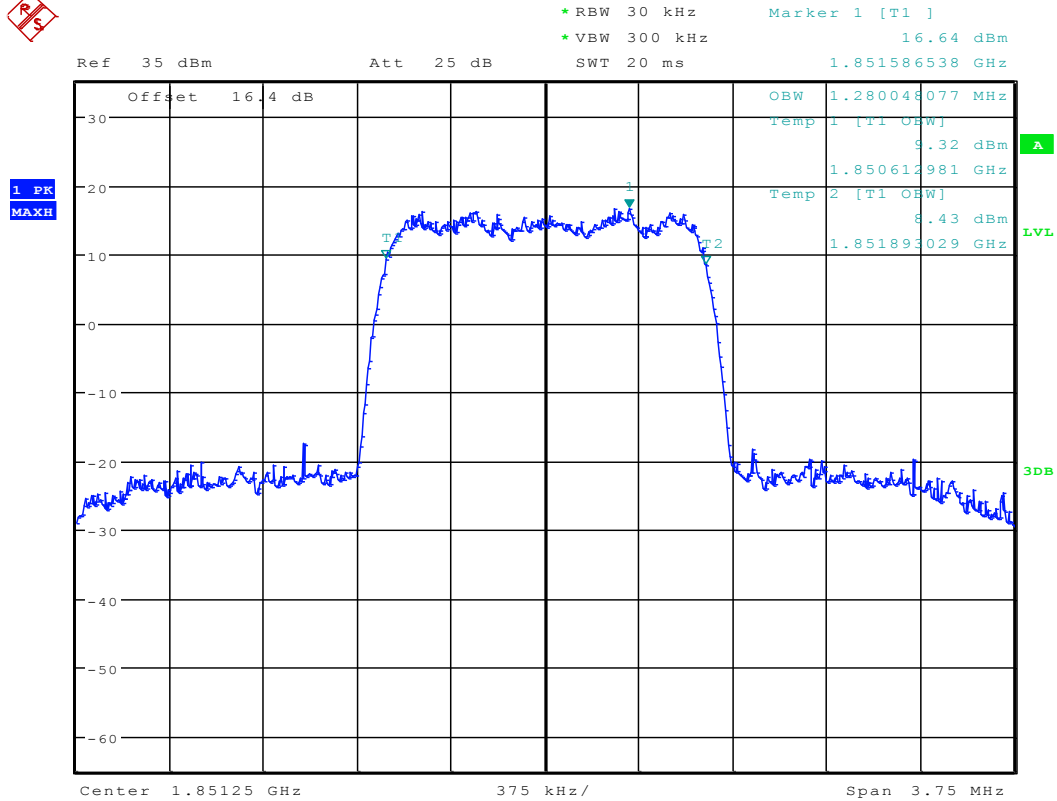
Channel 25(EVDO subtype 0)



Date: 27.APR.2012 01:22:18



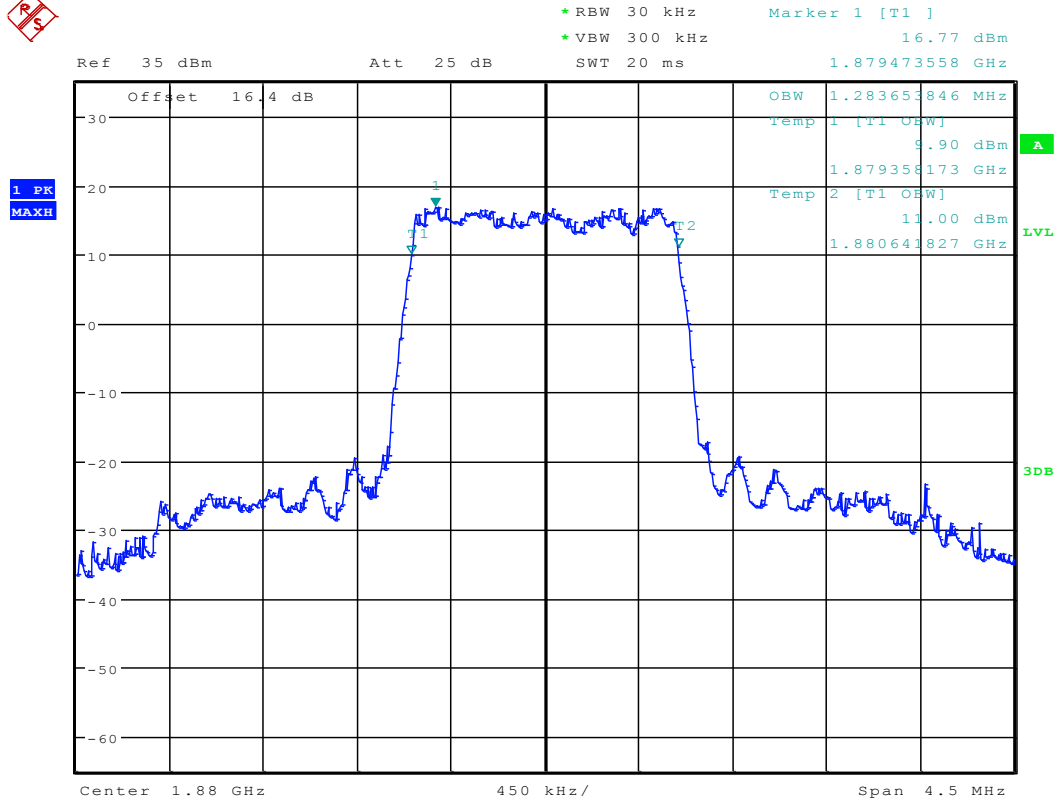
Channel 25 (EVDO Subtype 2)



Date: 27.APR.2012 01:27:18



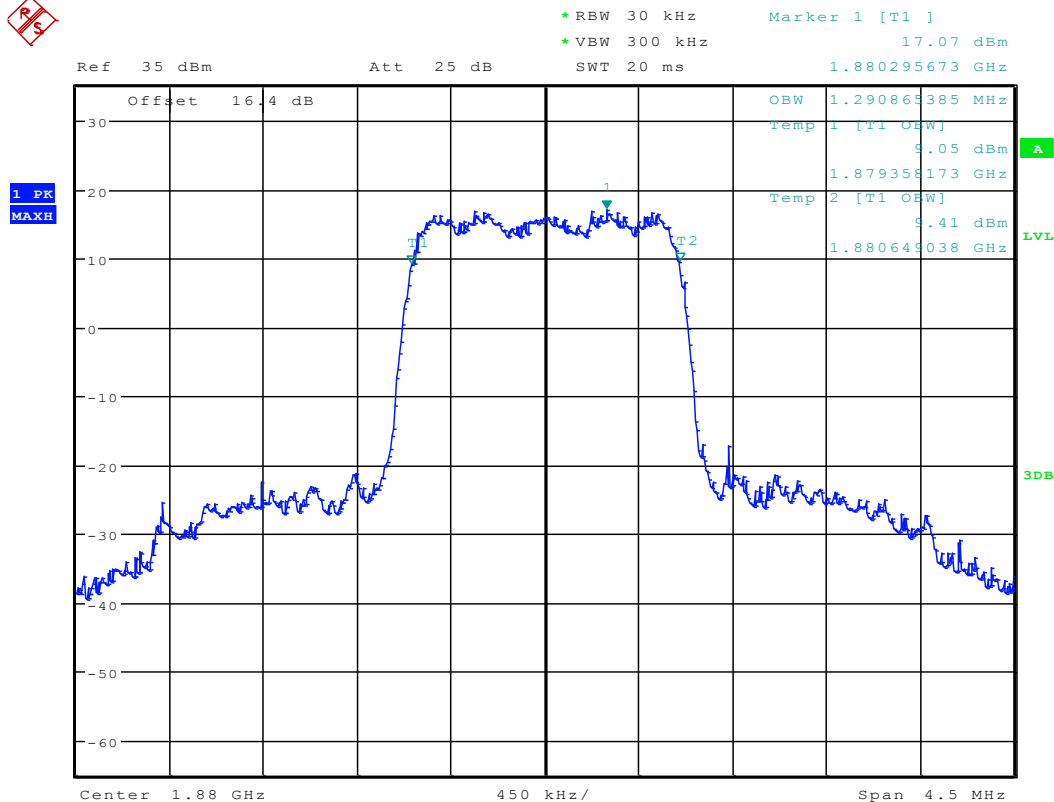
Channel 600(TM1)



Date: 27.APR.2012 01:17:23



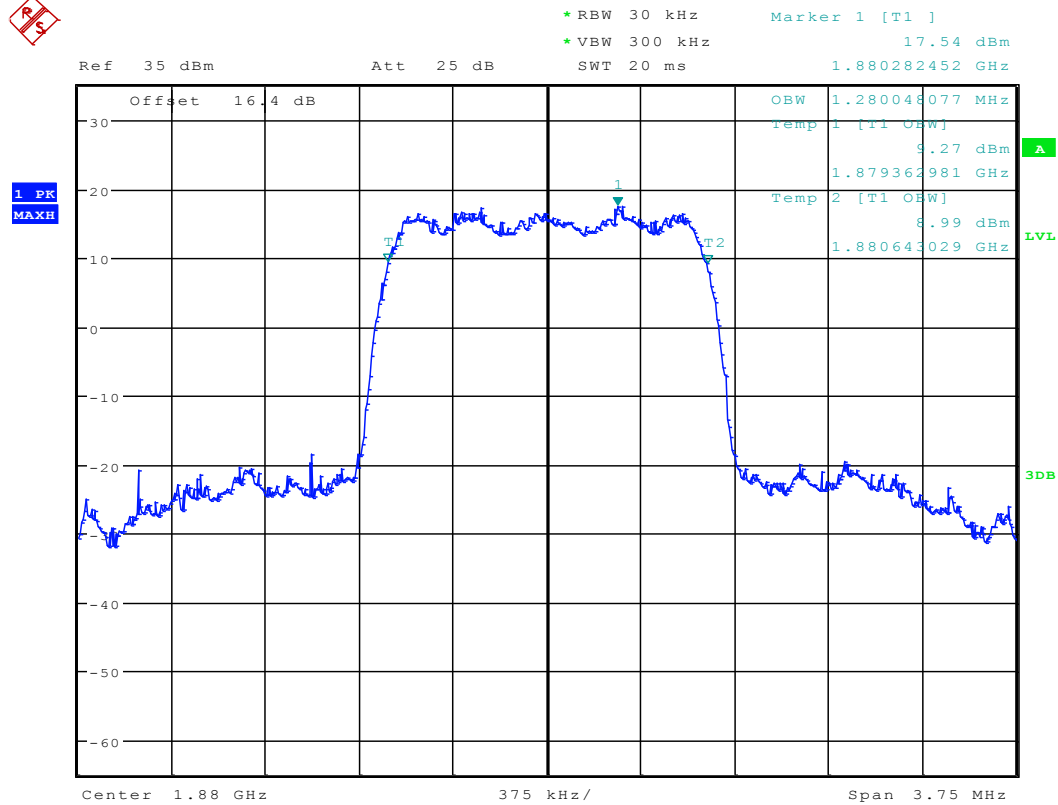
Channel 600(TM3)



Date: 27.APR.2012 01:18:06



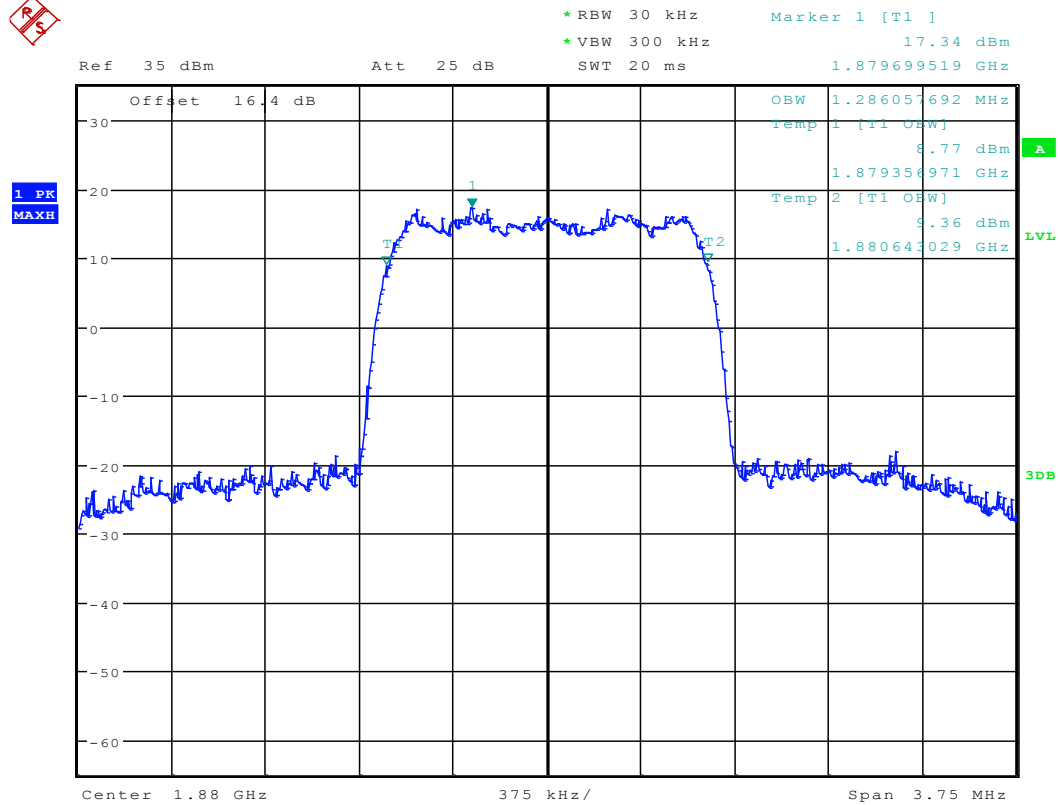
Channel 600 (EVDO subtype 0)



Date: 27.APR.2012 01:22:32



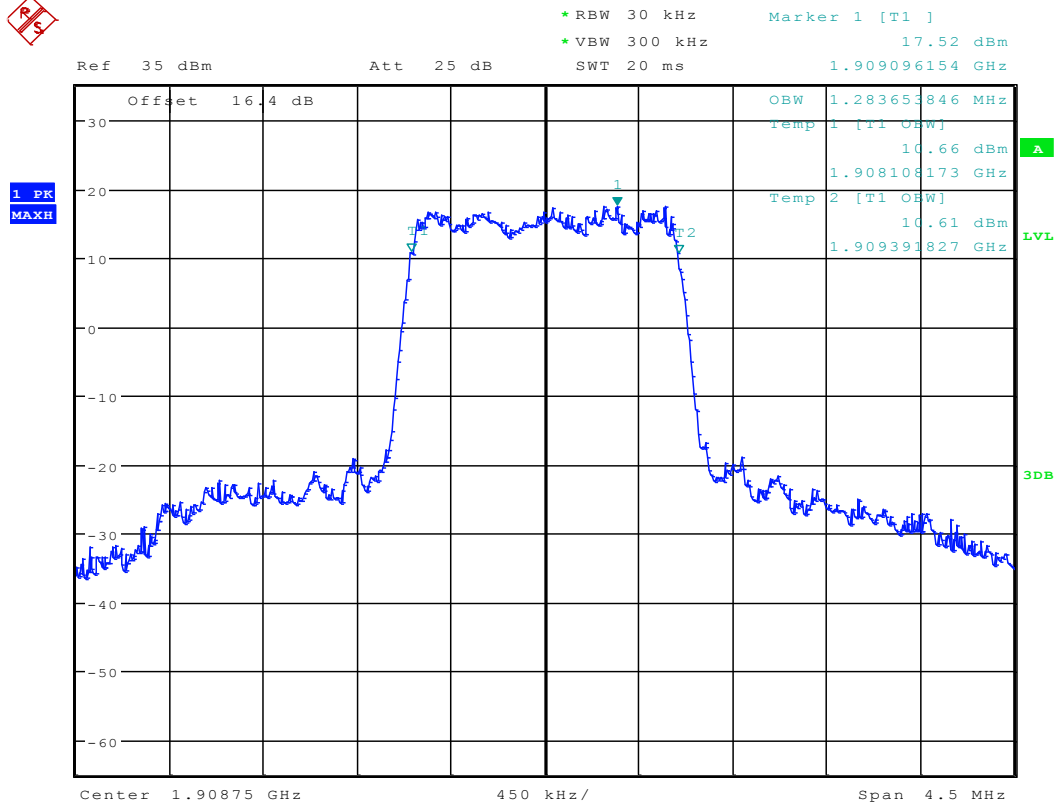
Channel 600 (EVDO subtype 2)



Date: 27.APR.2012 01:27:30



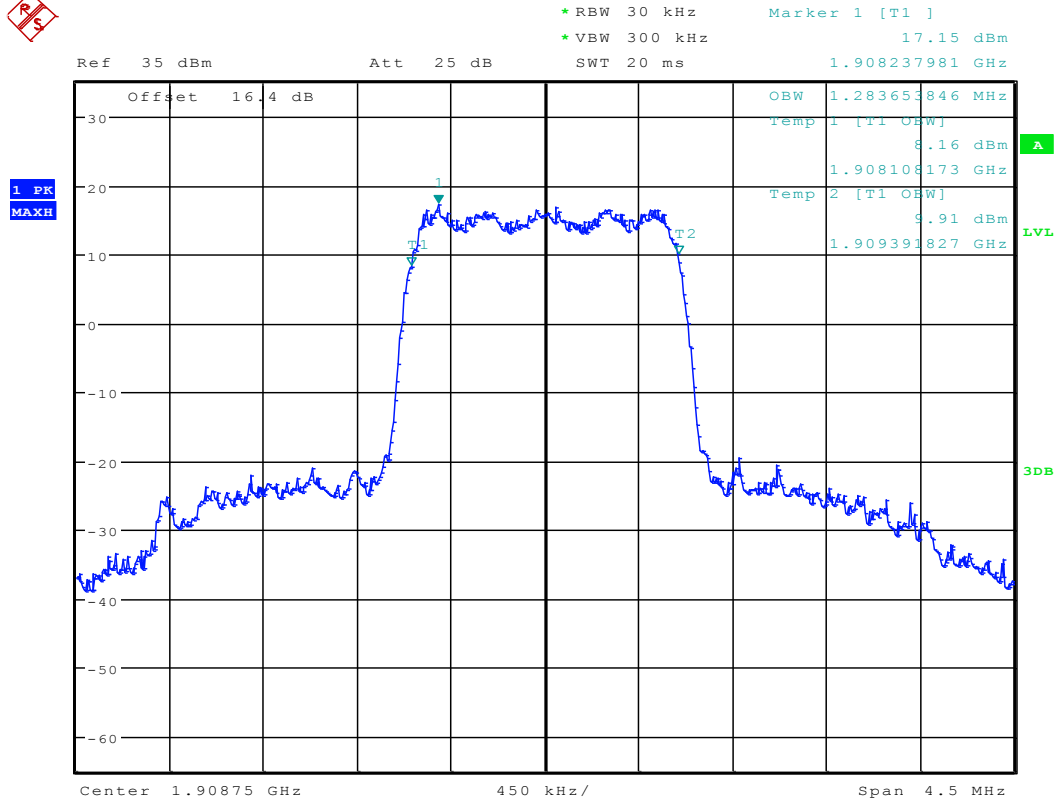
Channel 1175 (TM1)



Date: 27.APR.2012 01:17:37



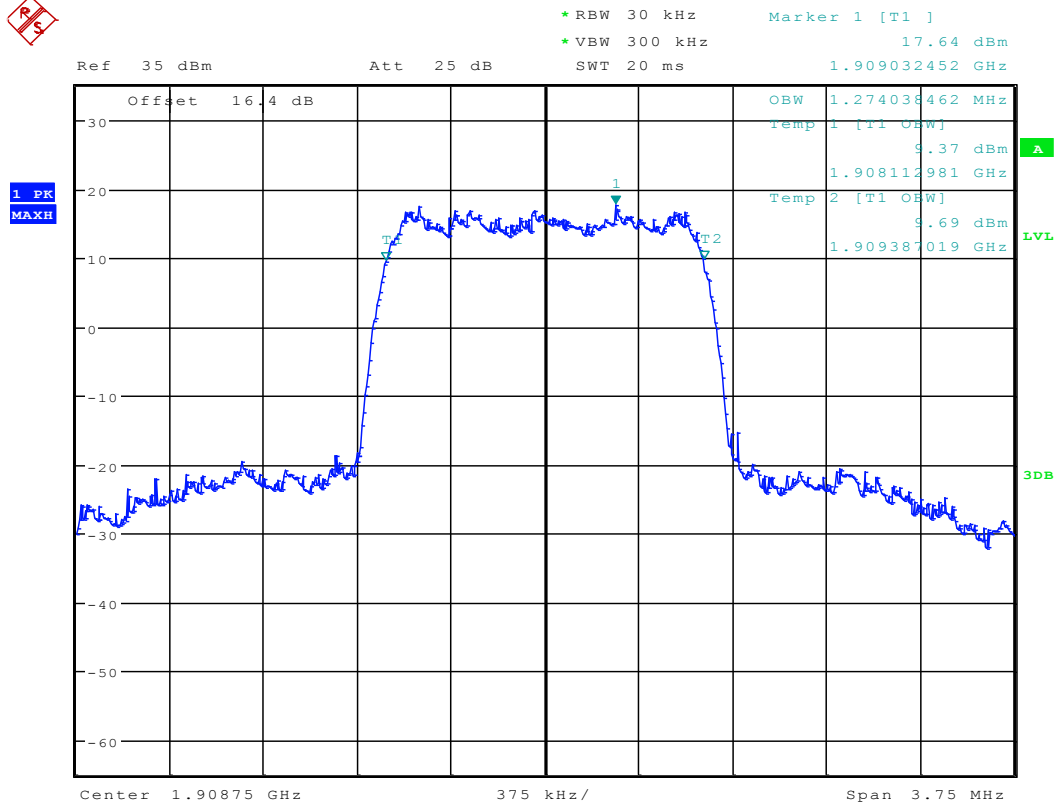
Channel 1175(TM3)



Date: 27.APR.2012 01:18:20



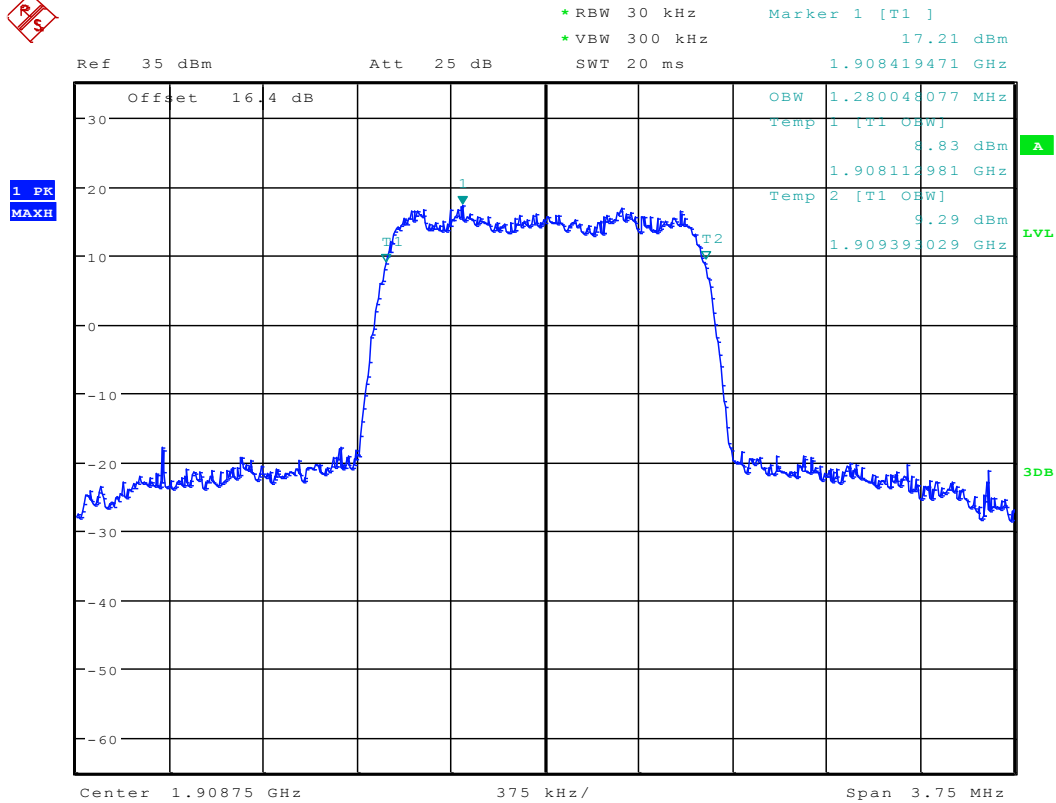
Channel 1175 (EVDO subtype 0)



Date: 27.APR.2012 01:22:45



Channel 1175 (EVDO subtype 2)



Date: 27.APR.2012 01:27:41

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



Appendix D

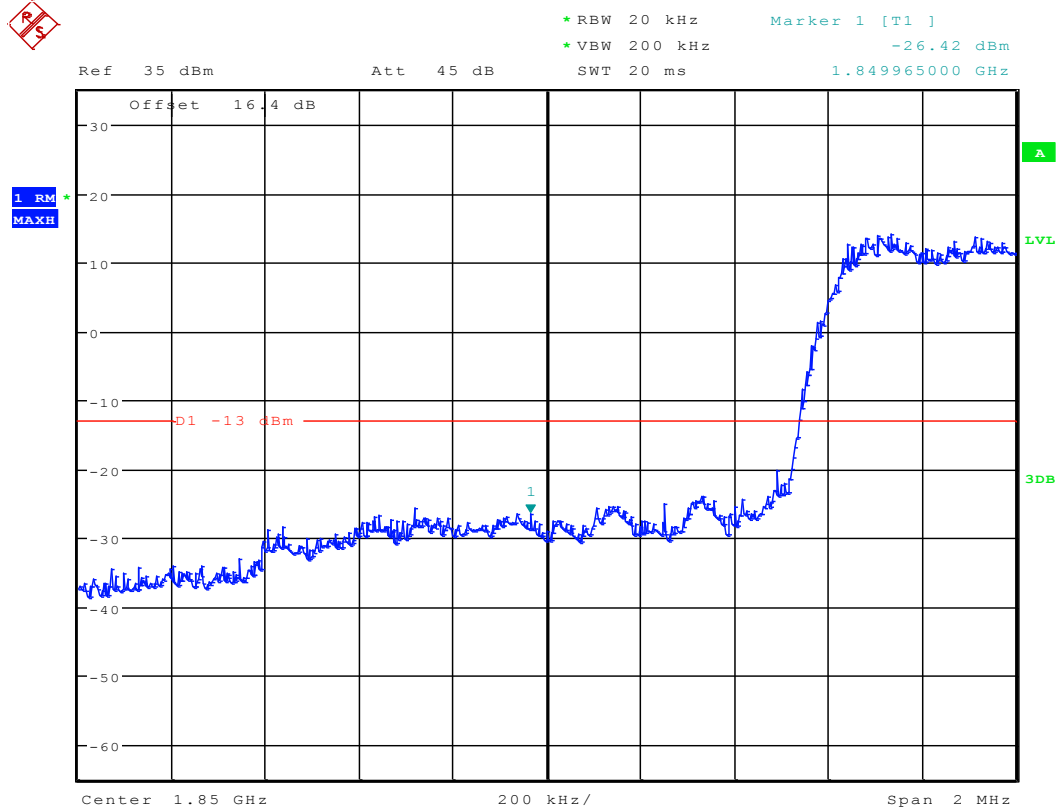
Band Edges Compliance According to FCC Part 2.1051 & 24.238



TM1

Left Edge (1850 MHz)

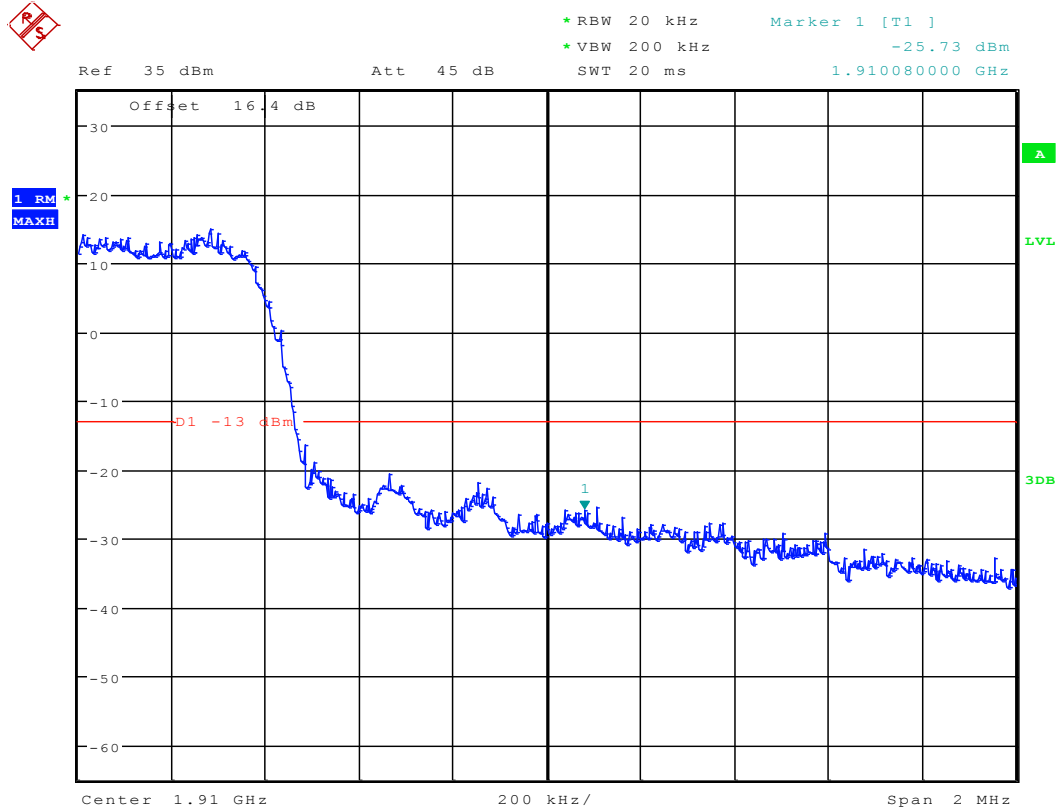
Channel 25



Date: 27.APR.2012 01:16:10



Right Edge (1910MHz) Channel 1175



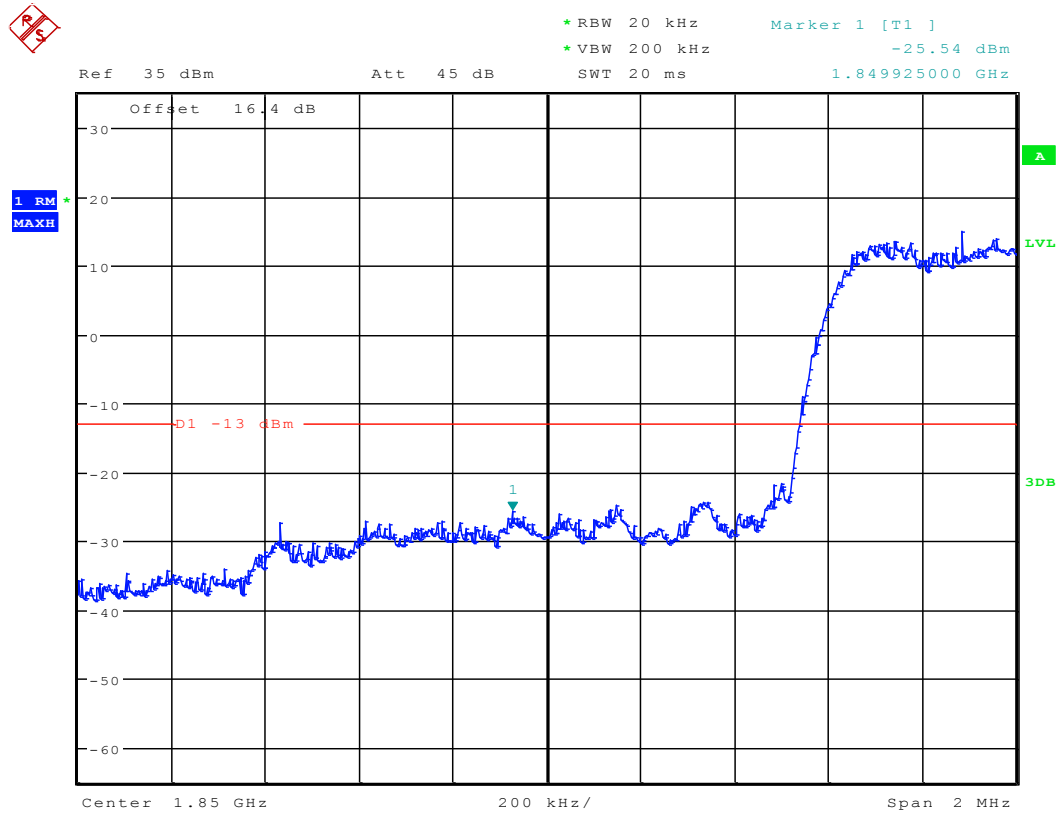
Date: 27.APR.2012 01:16:24



TM3

Left Edge (1850 MHz)

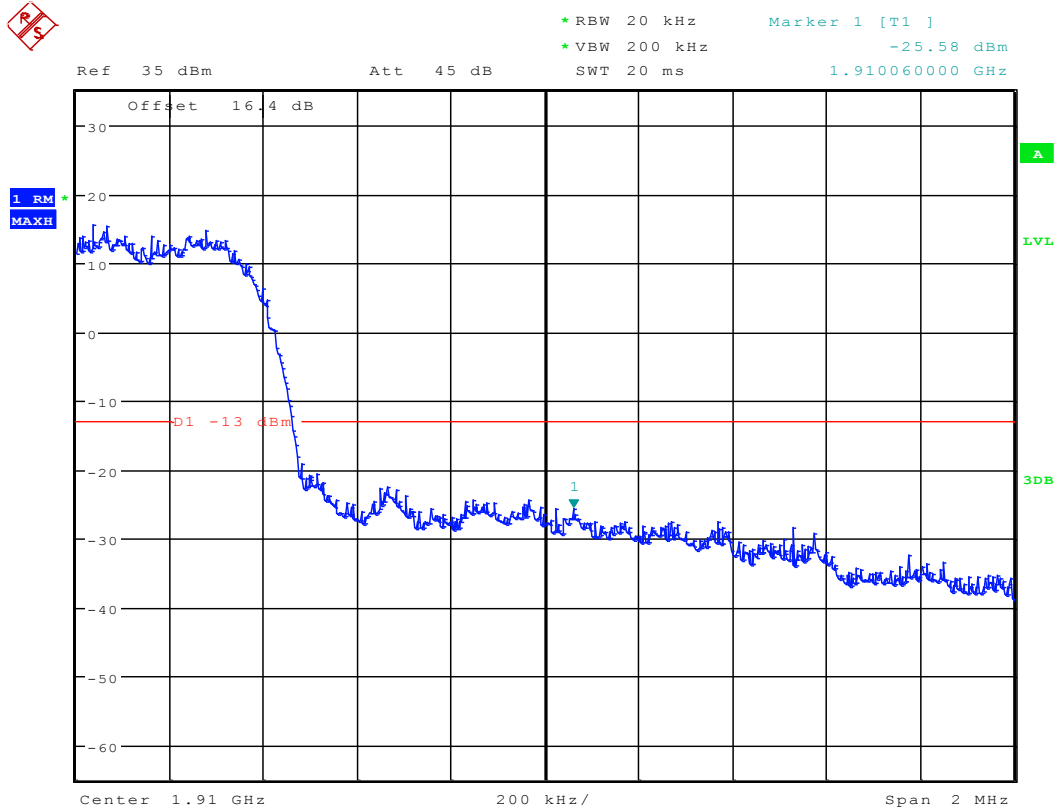
Channel 25



Date: 27.APR.2012 01:16:39



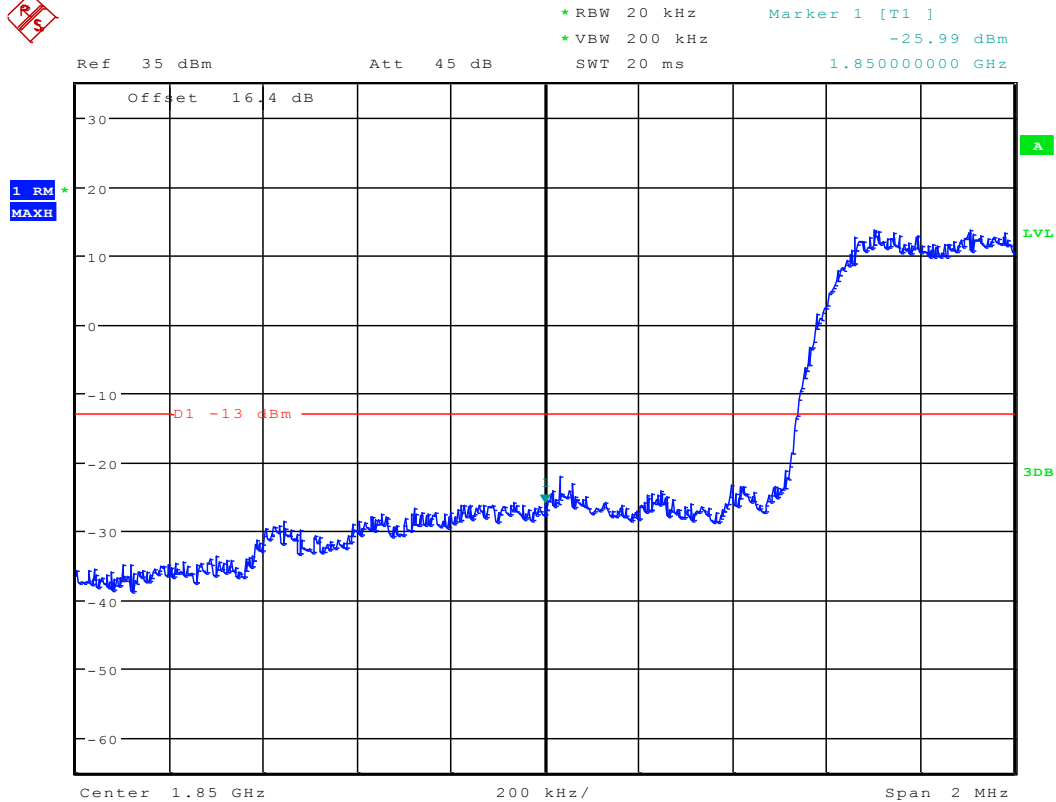
Right Edge (1910MHz) Channel 1175



Date: 27.APR.2012 01:16:54



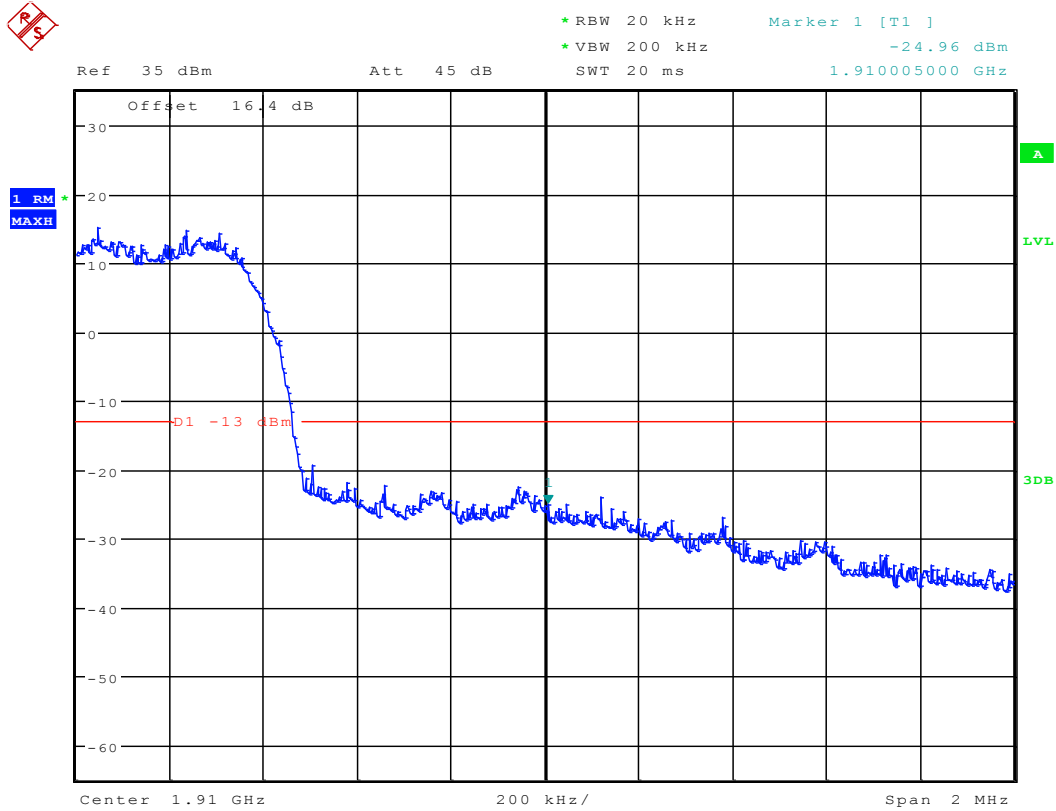
EVDO subtype 0 Left Edge (1850 MHz) Channel 25



Date: 27.APR.2012 01:21:48



Right Edge (1910MHz) Channel 1175

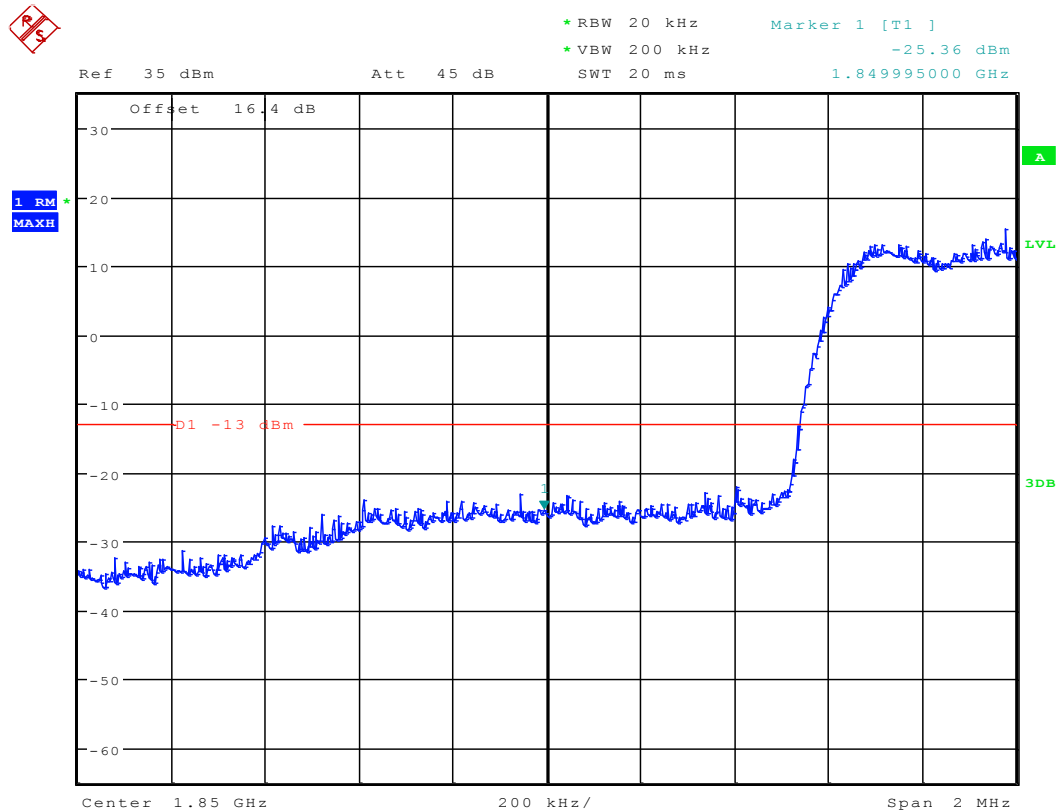


Date: 27.APR.2012 01:22:02



EVDO subtype 2

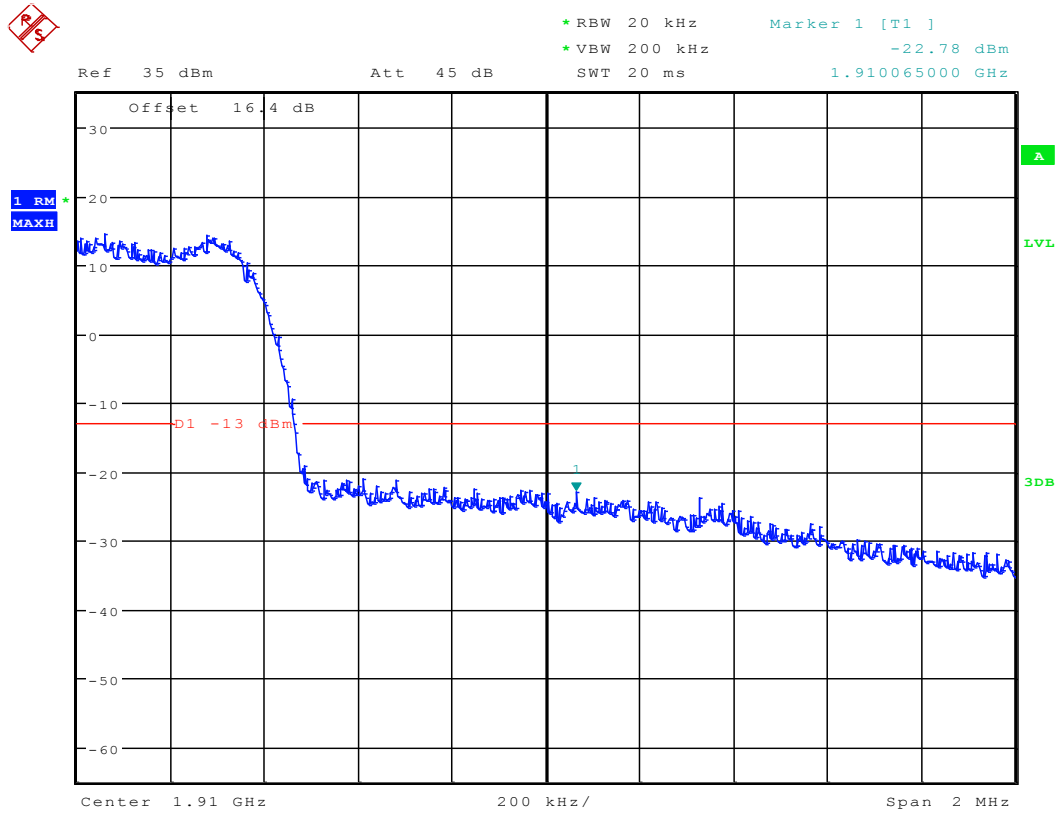
Modulation: BPSK
Left Edge (1850 MHz)
Channel 25



Date: 27.APR.2012 01:35:41



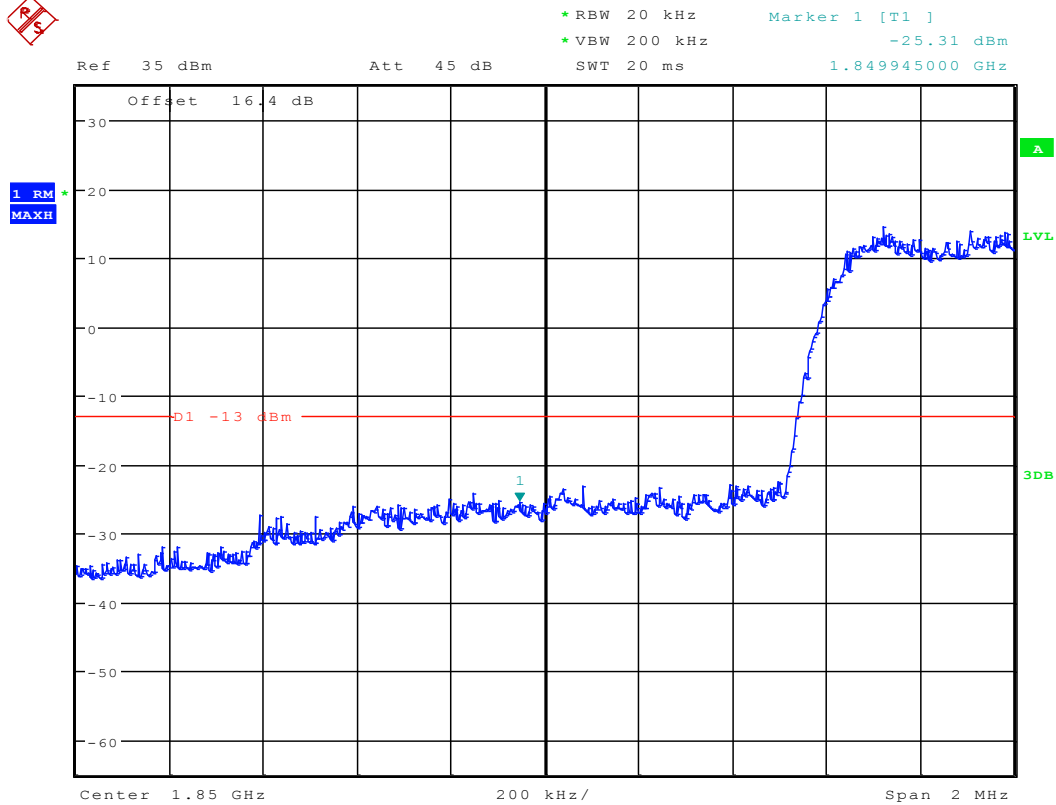
Right Edge (1910MHz) Channel 1175



Date: 27.APR.2012 01:35:55



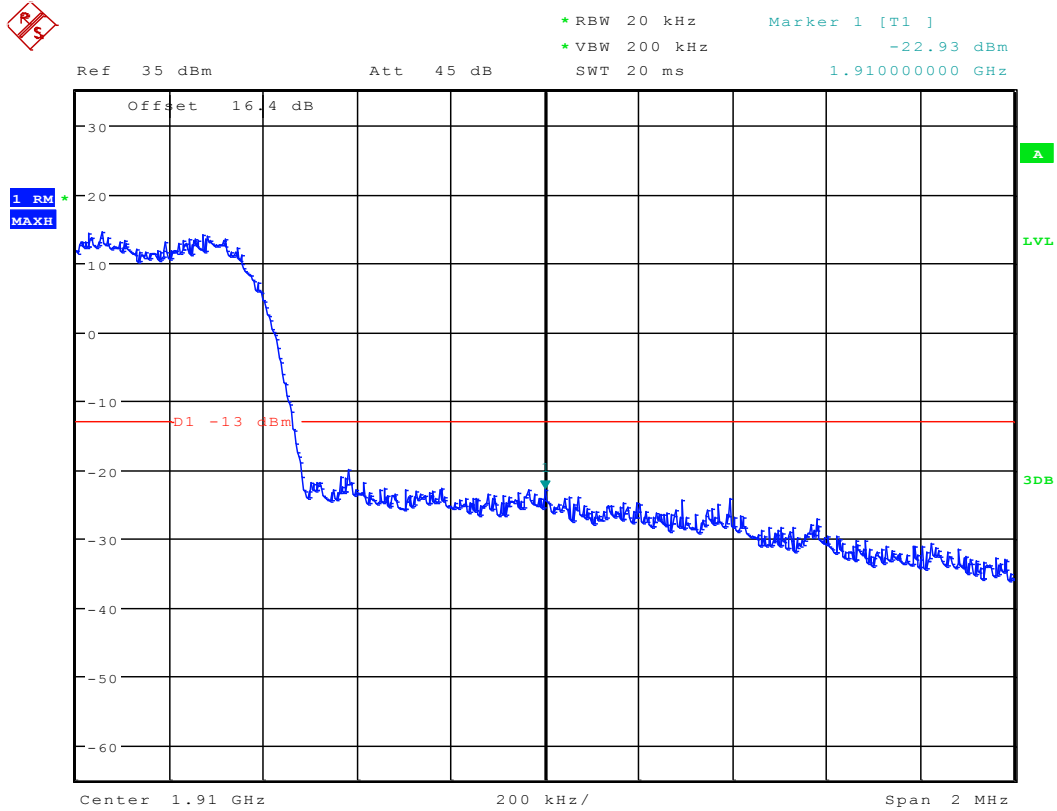
Modulation: QPSK
Left Edge (1850 MHz)
Channel 25



Date: 27.APR.2012 01:36:08



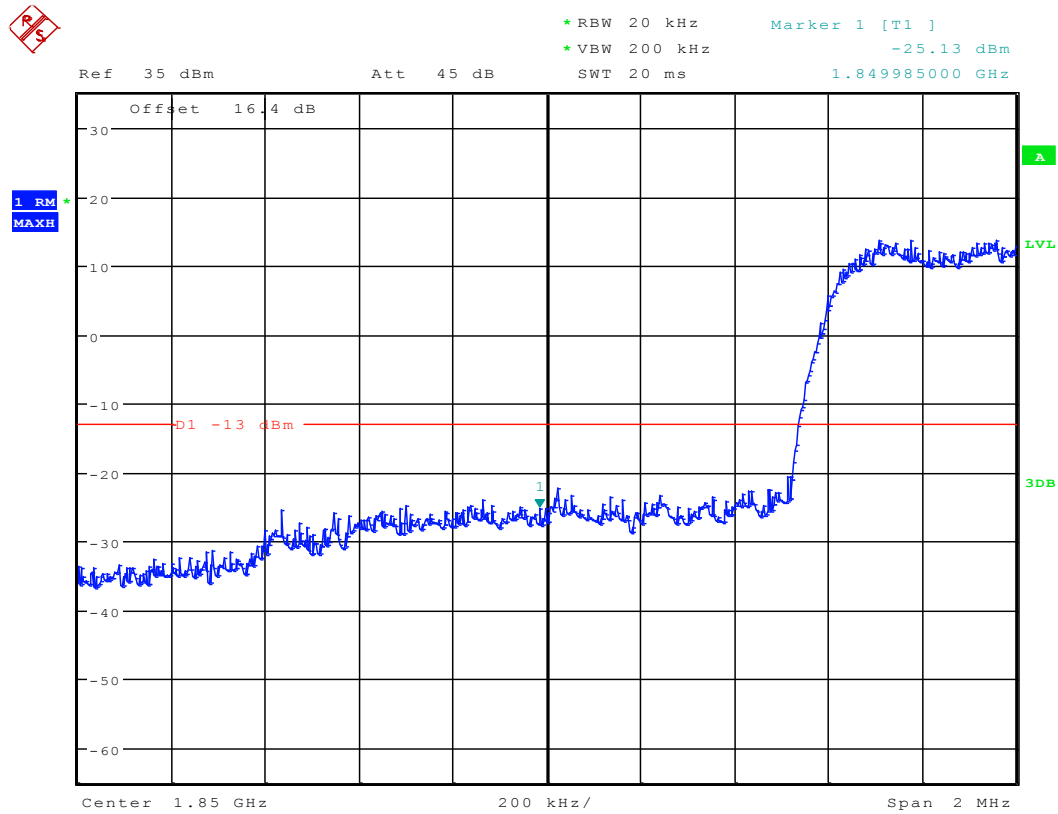
Right Edge (1910MHz) Channel 1175



Date: 27.APR.2012 01:36:22



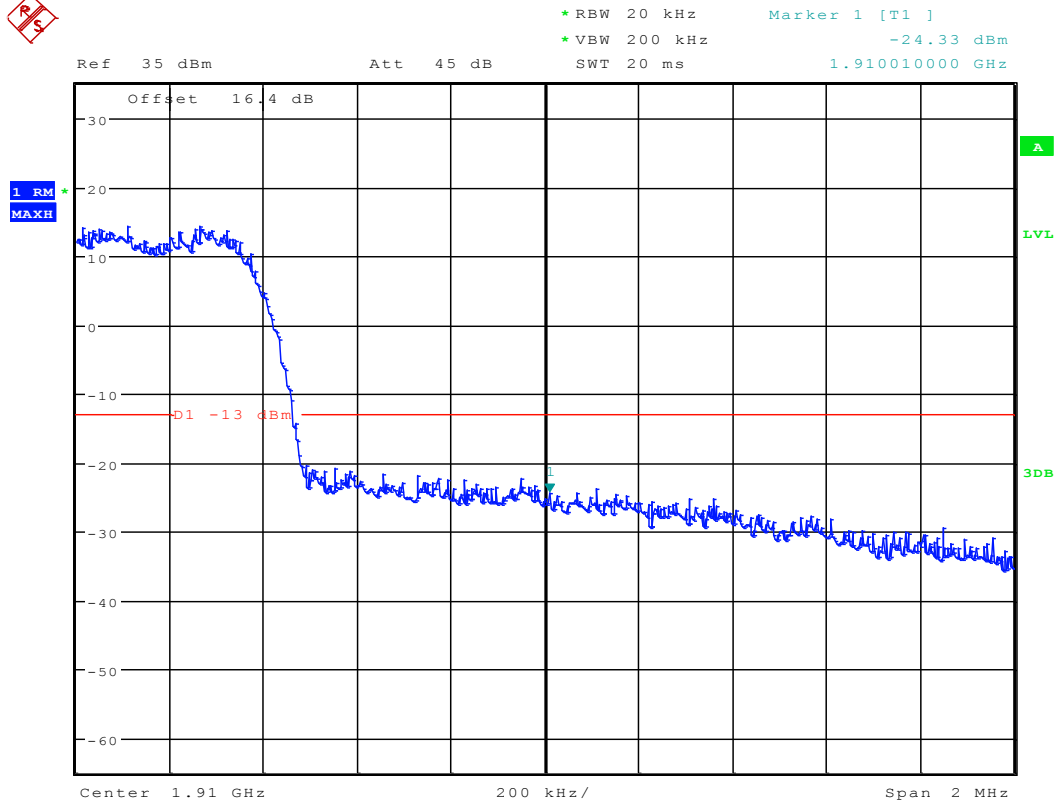
Modulation: 8PSK
Left Edge (1850 MHz)
Channel 25



Date: 27.APR.2012 01:36:36



Right Edge (1910MHz) Channel 1175



Date: 27.APR.2012 01:36:49

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



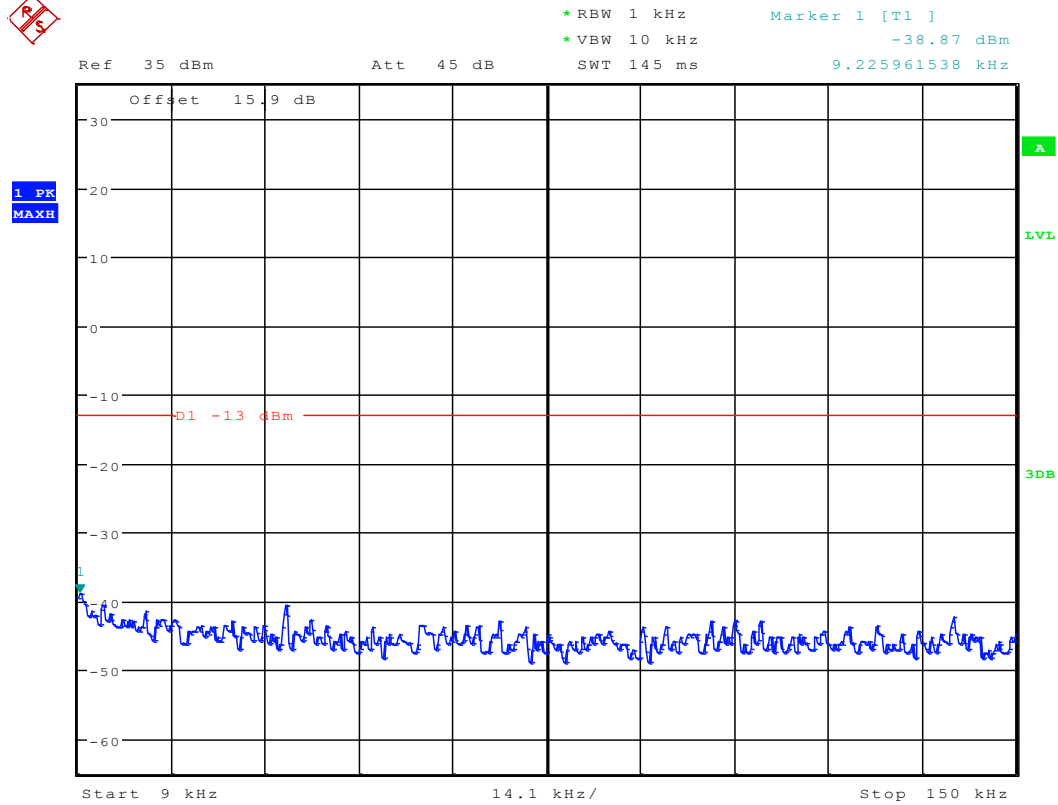
Appendix E

Spurious Emission at Antenna Terminal

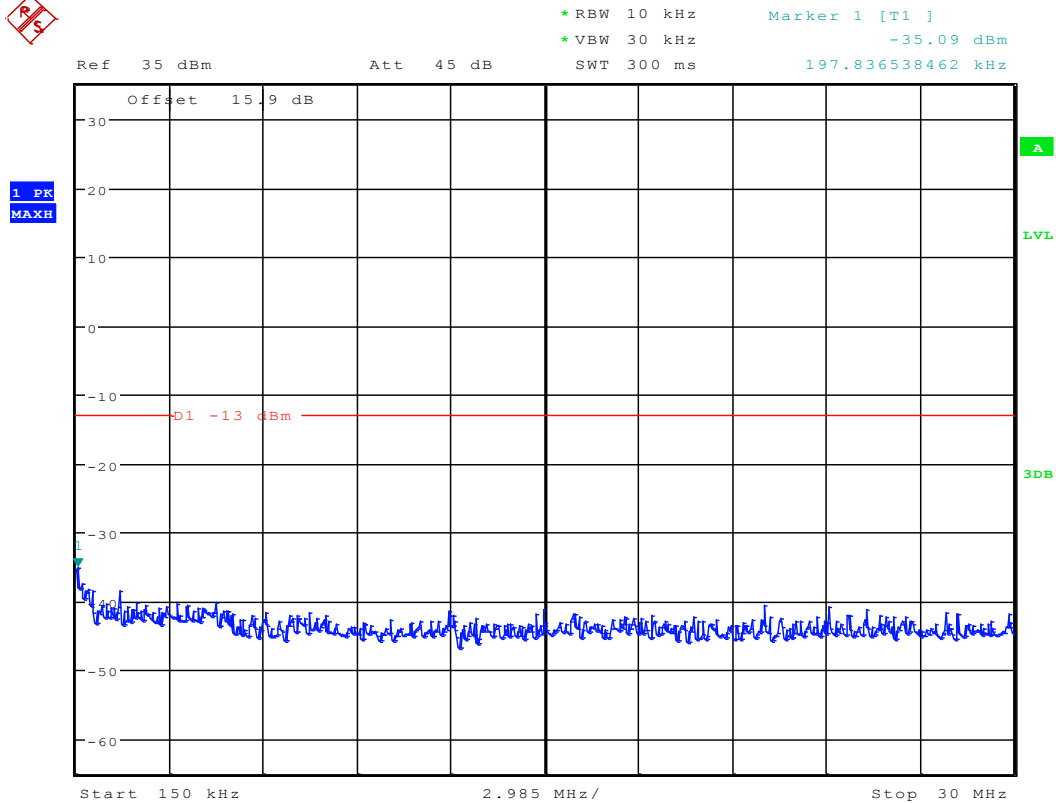
According to FCC Part 2.1051 & 24.238



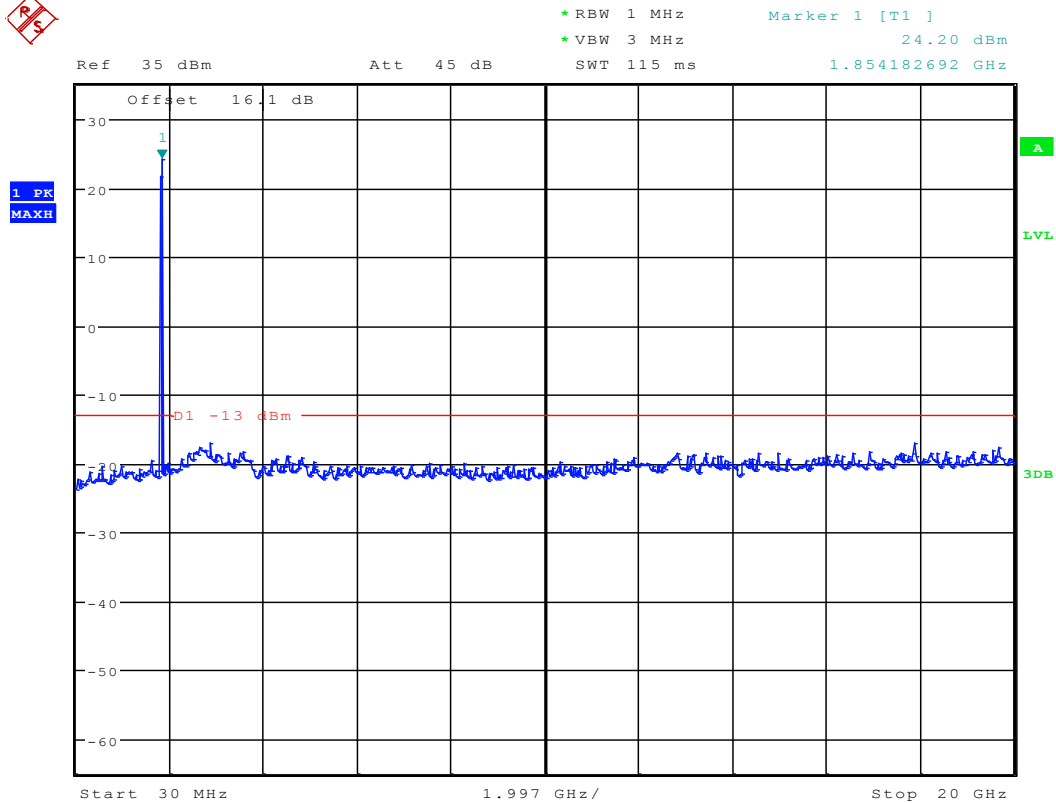
TM1 Channel 25



Date: 27.APR.2012 01:18:31



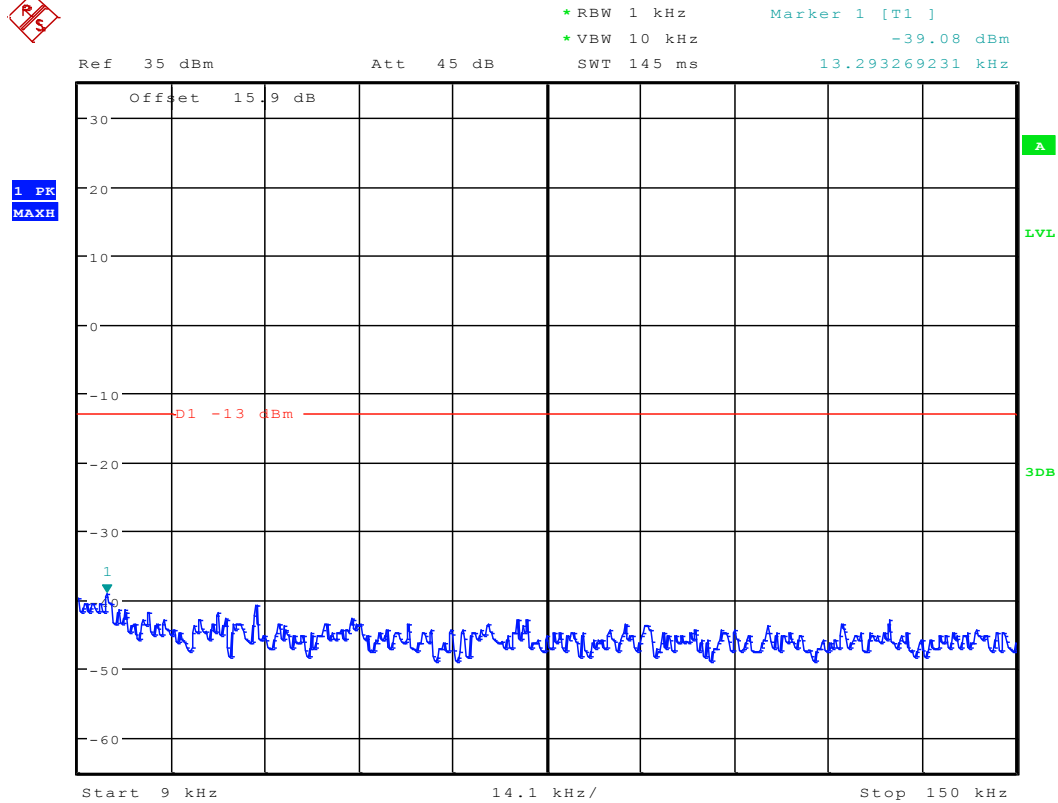
Date: 27.APR.2012 01:18:56



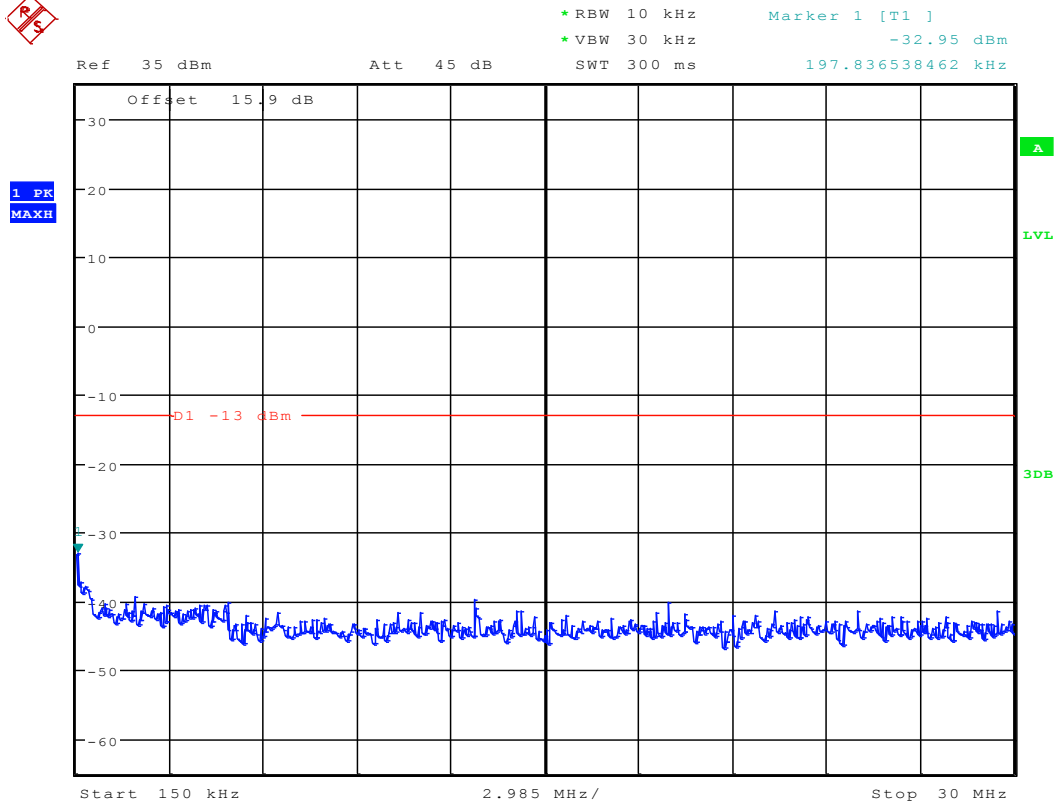
Date: 27.APR.2012 01:19:22



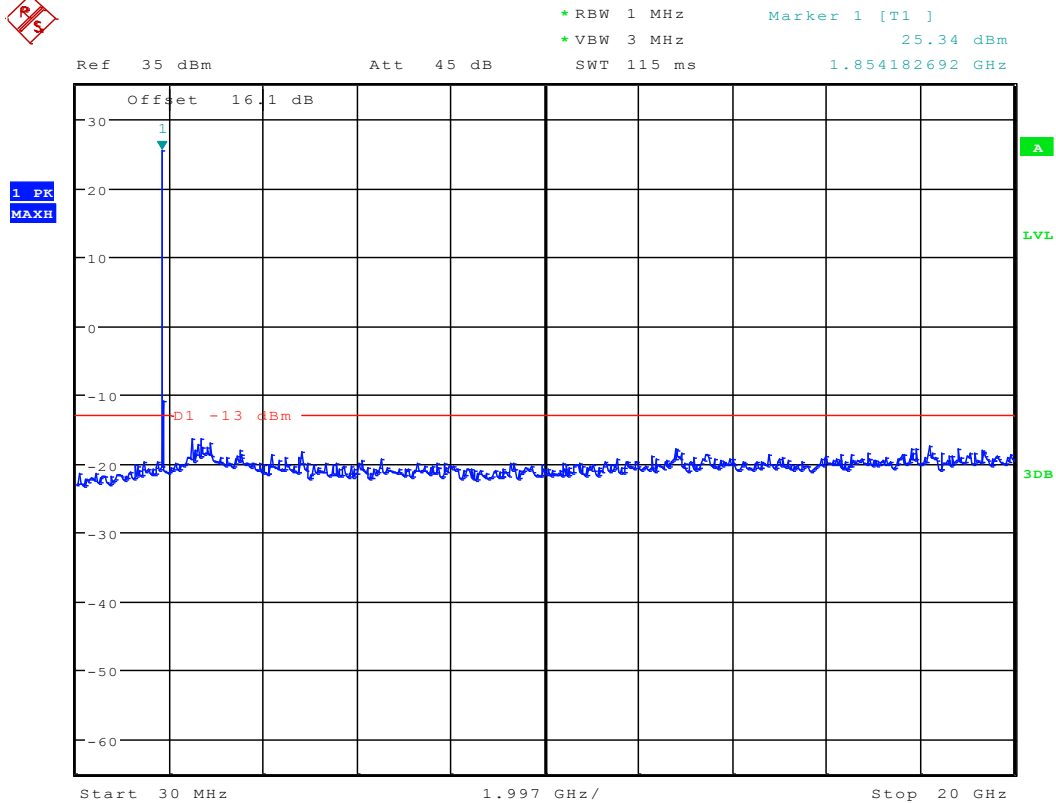
Channel 600



Date: 27.APR.2012 01:18:39



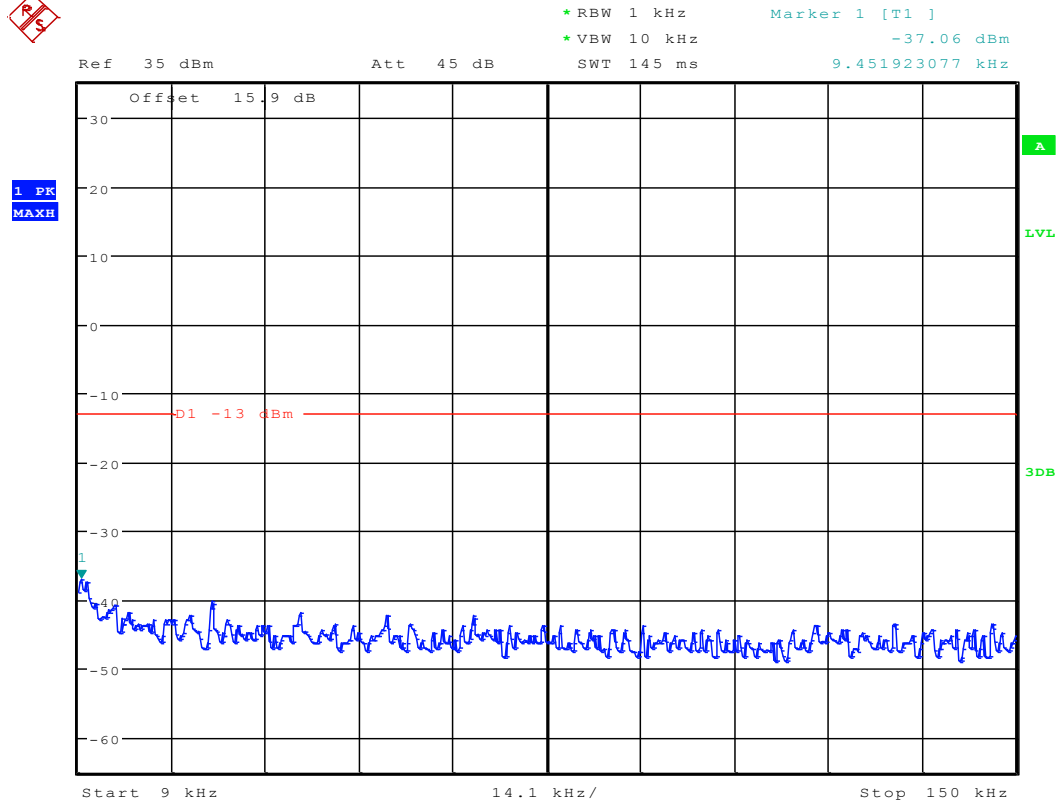
Date: 27.APR.2012 01:19:05



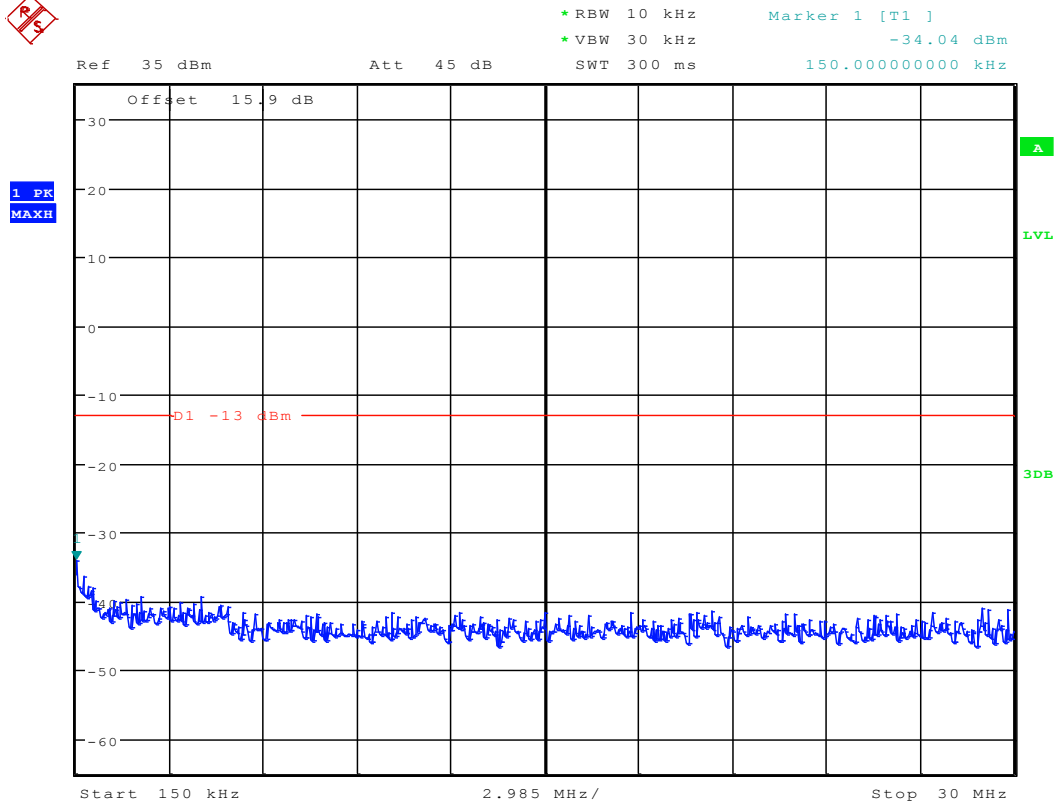
Date: 27.APR.2012 01:19:31



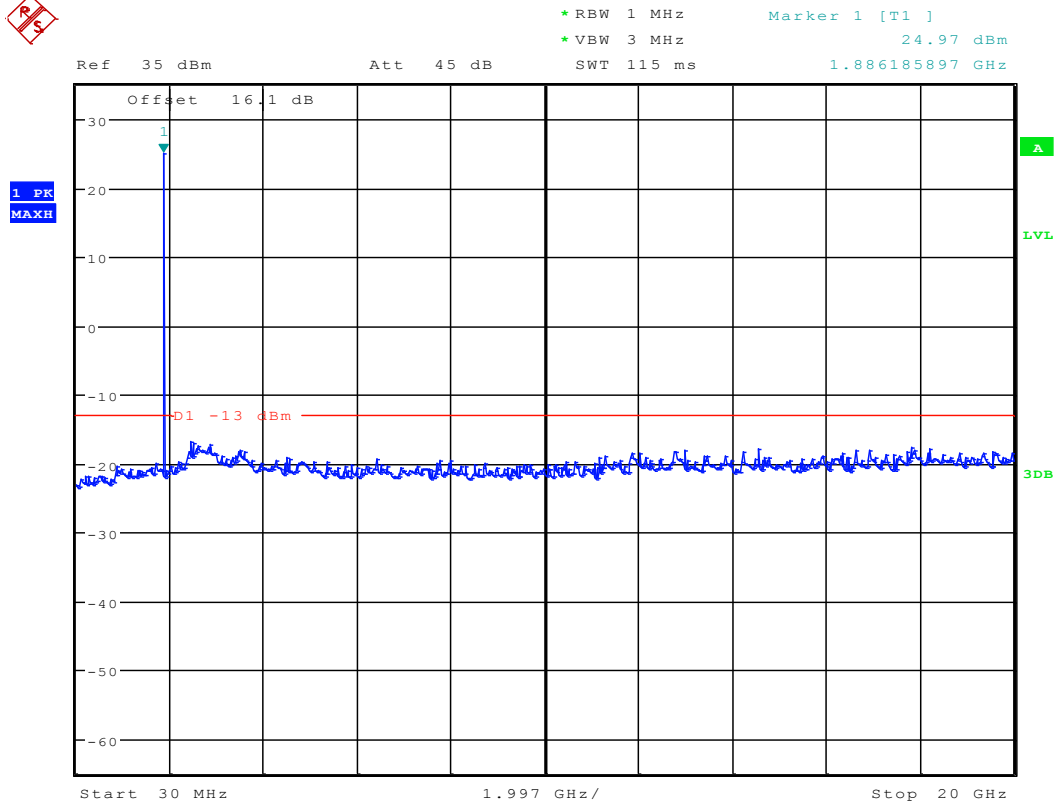
Channel 1175



Date: 27.APR.2012 01:18:47



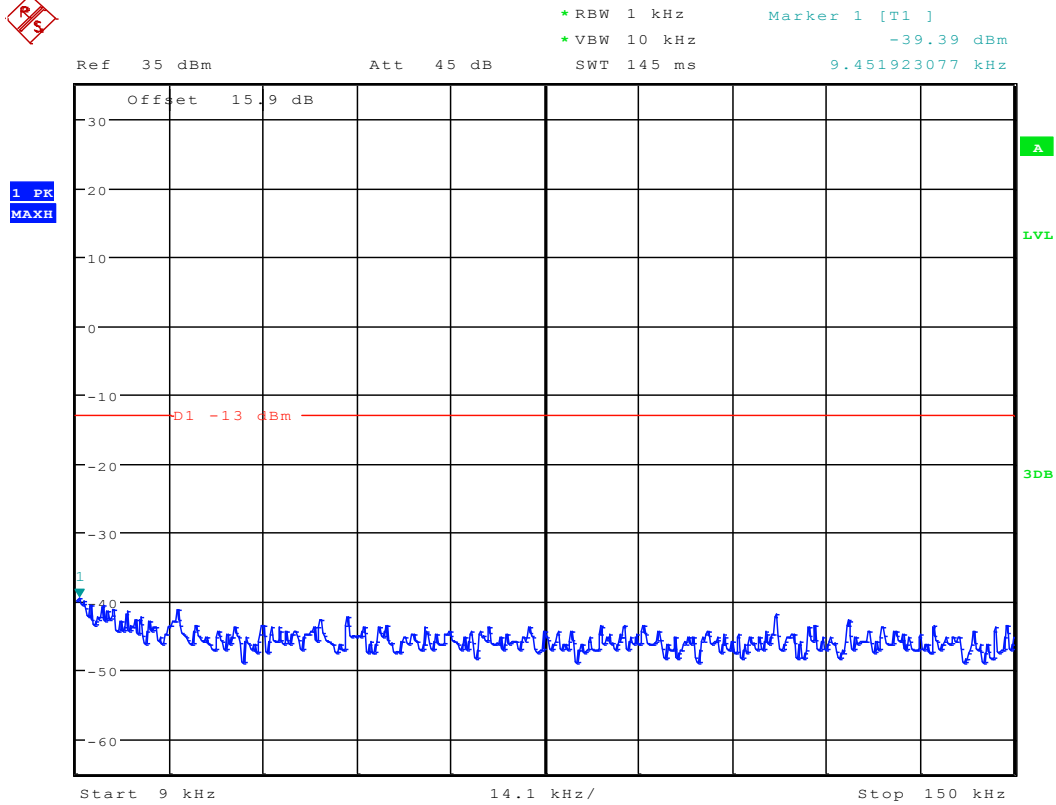
Date: 27.APR.2012 01:19:13



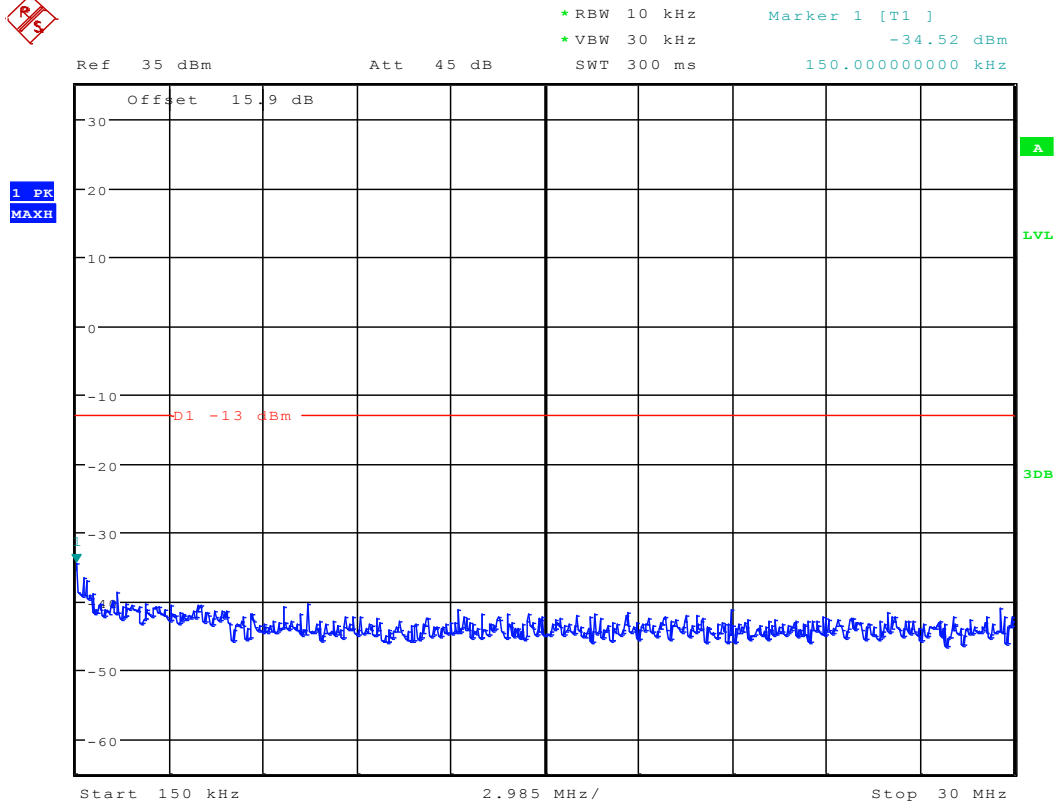
Date: 27.APR.2012 01:19:39



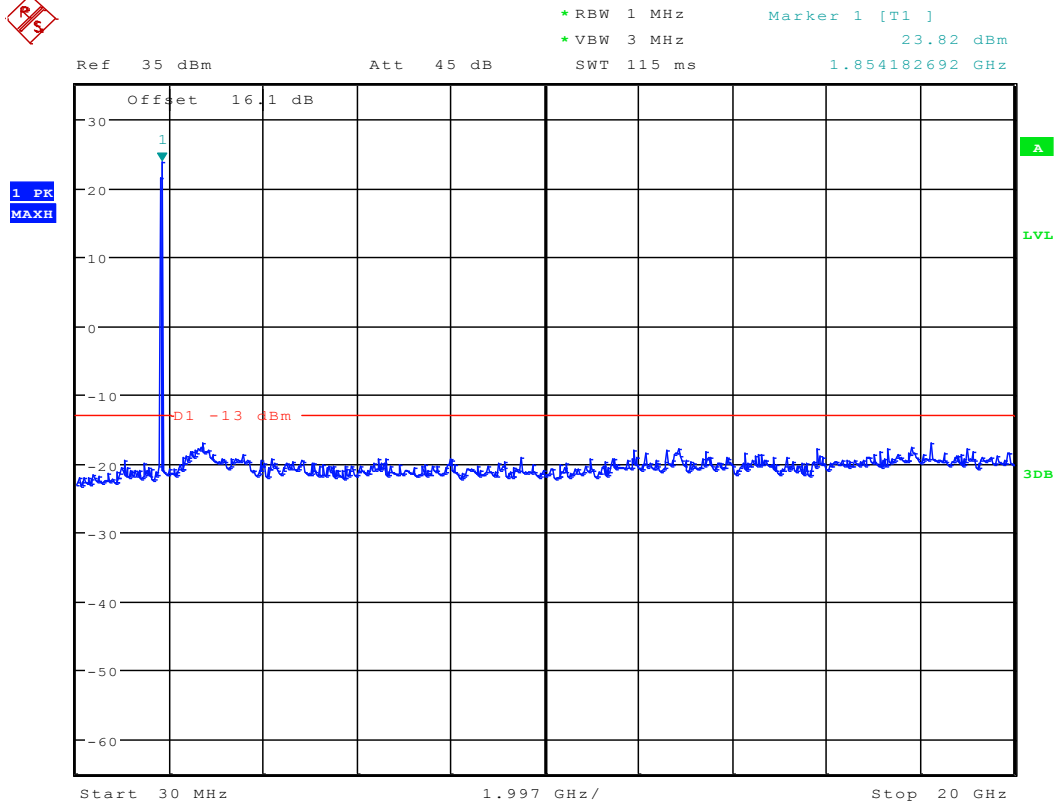
TM3 Channel 25



Date: 27.APR.2012 01:19:49



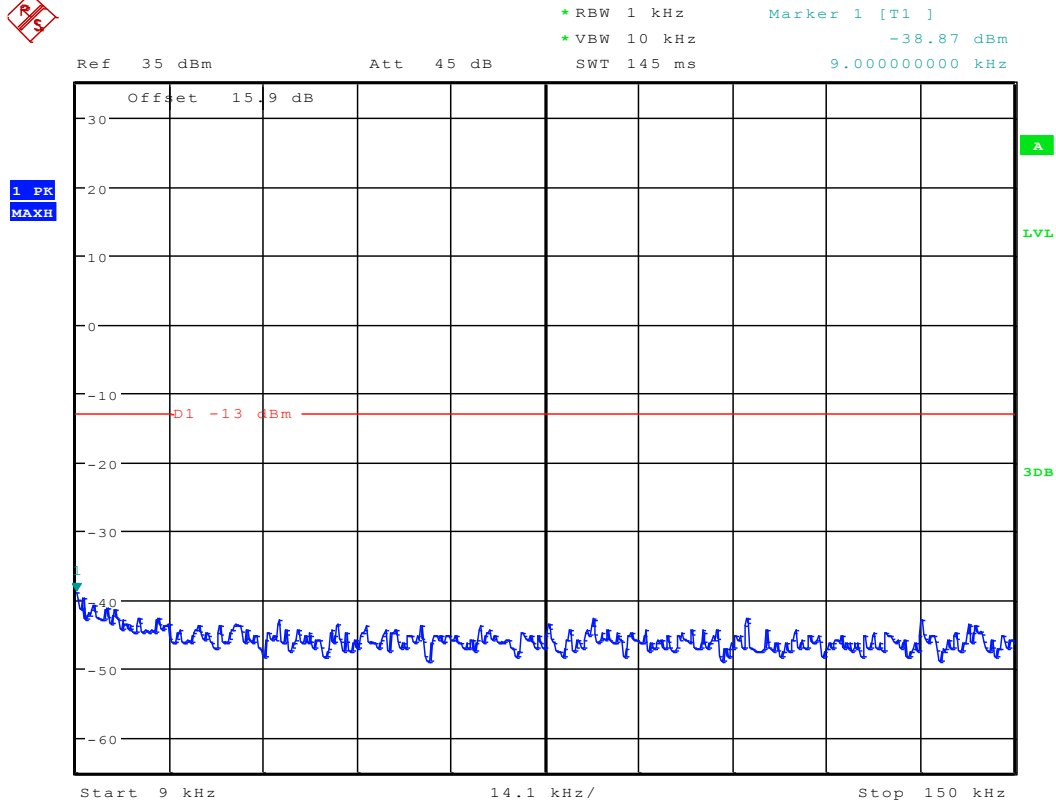
Date: 27.APR.2012 01:20:15



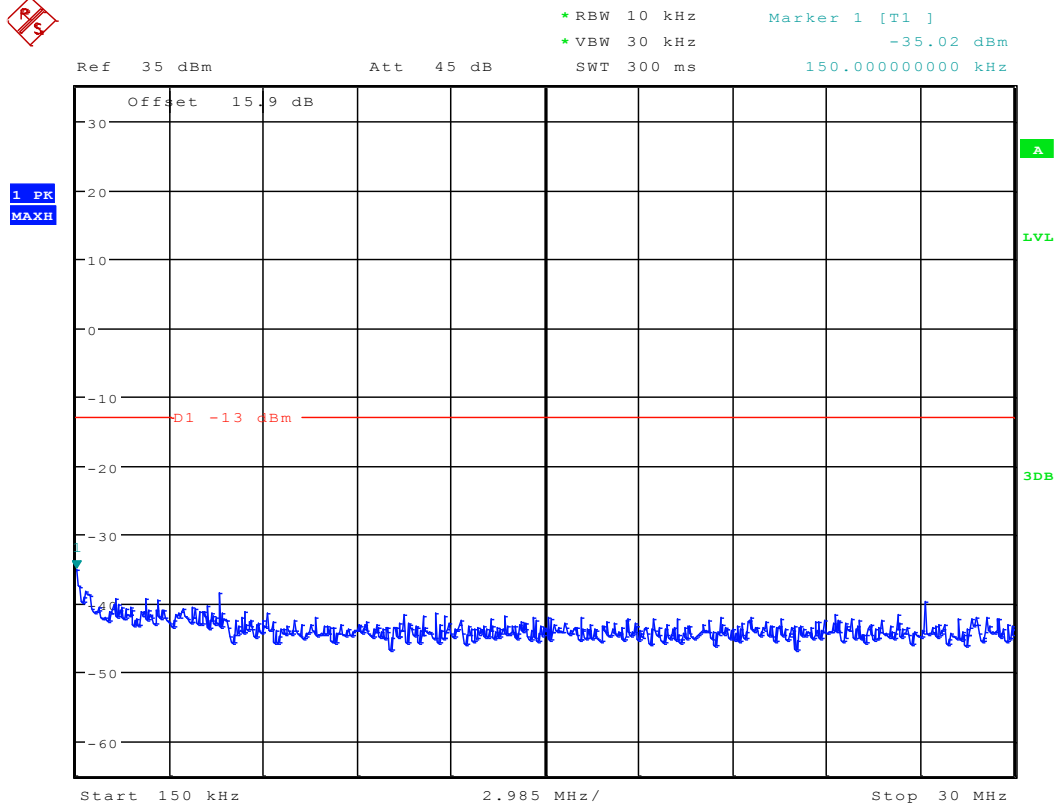
Date: 27.APR.2012 01:20:41



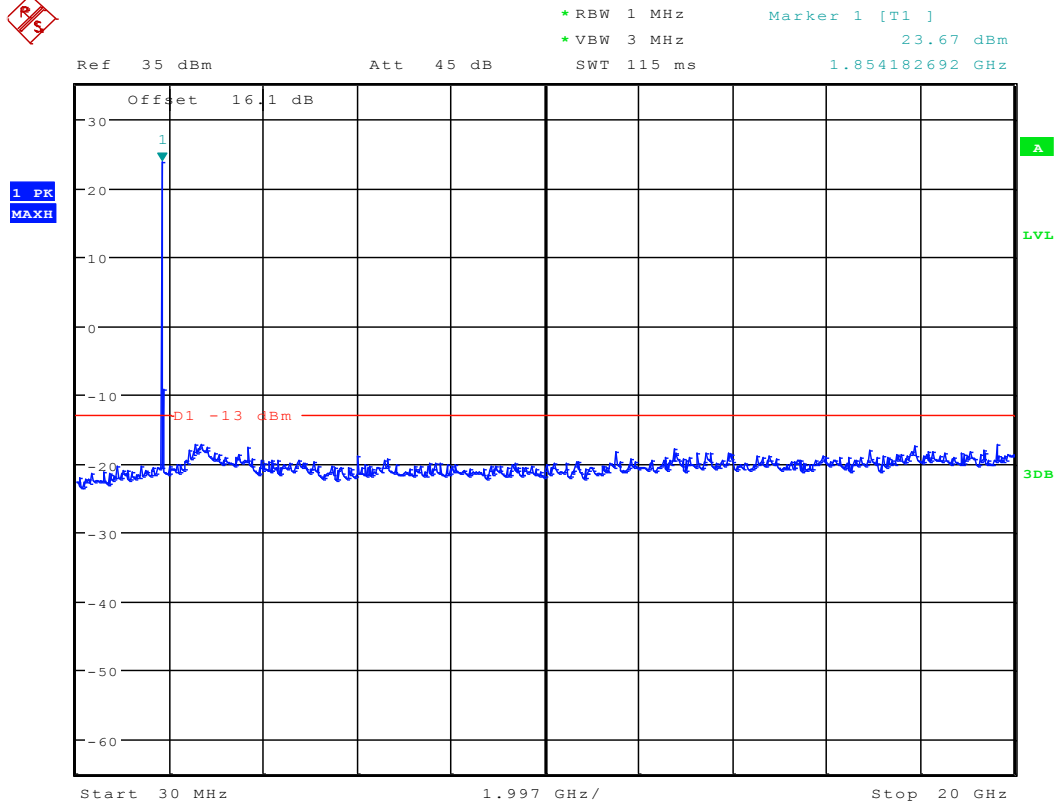
Channel 600



Date: 27.APR.2012 01:19:58



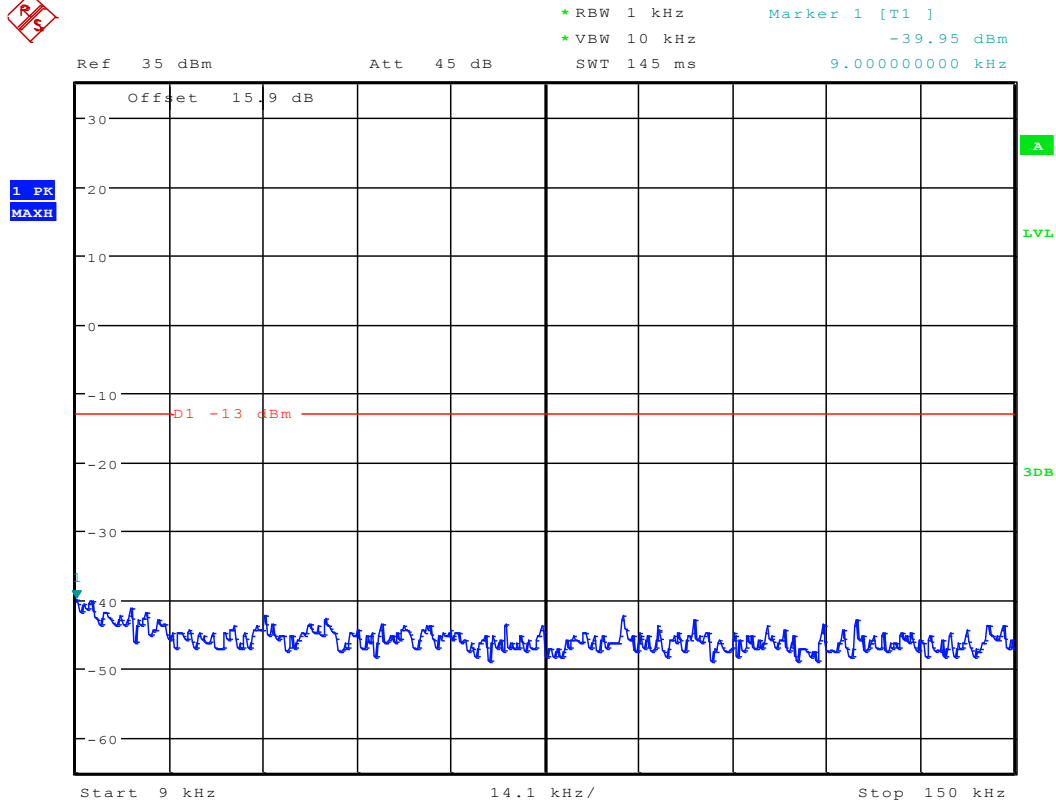
Date: 27.APR.2012 01:20:23



Date: 27.APR.2012 01:20:49



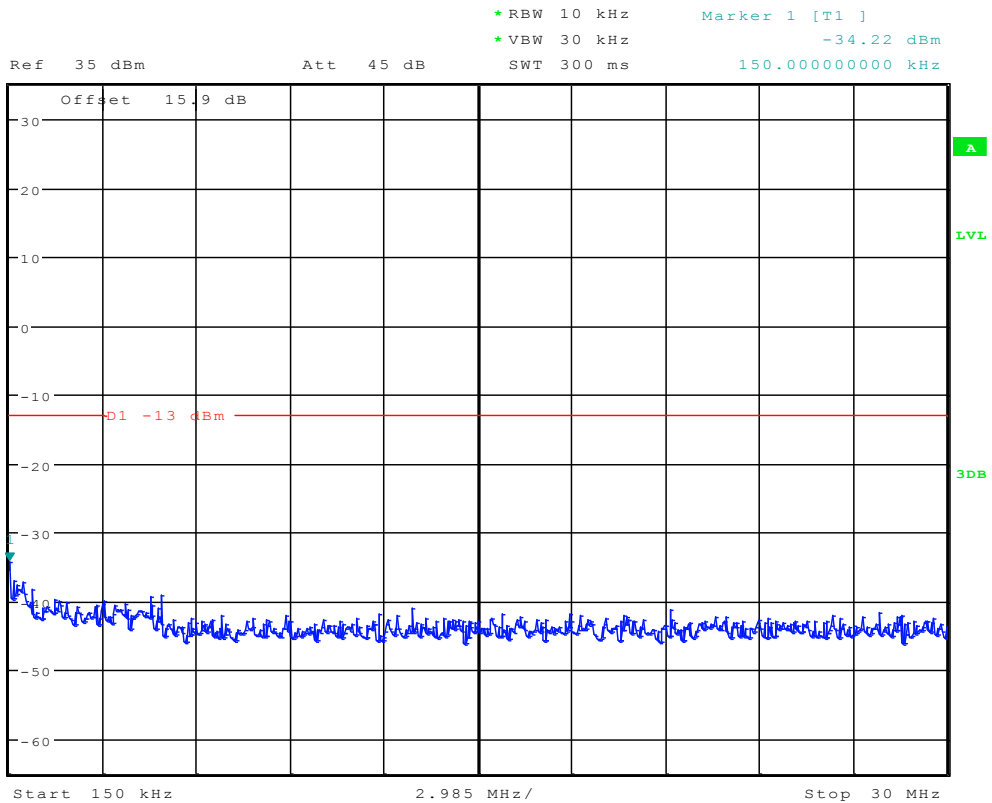
Channel 1175



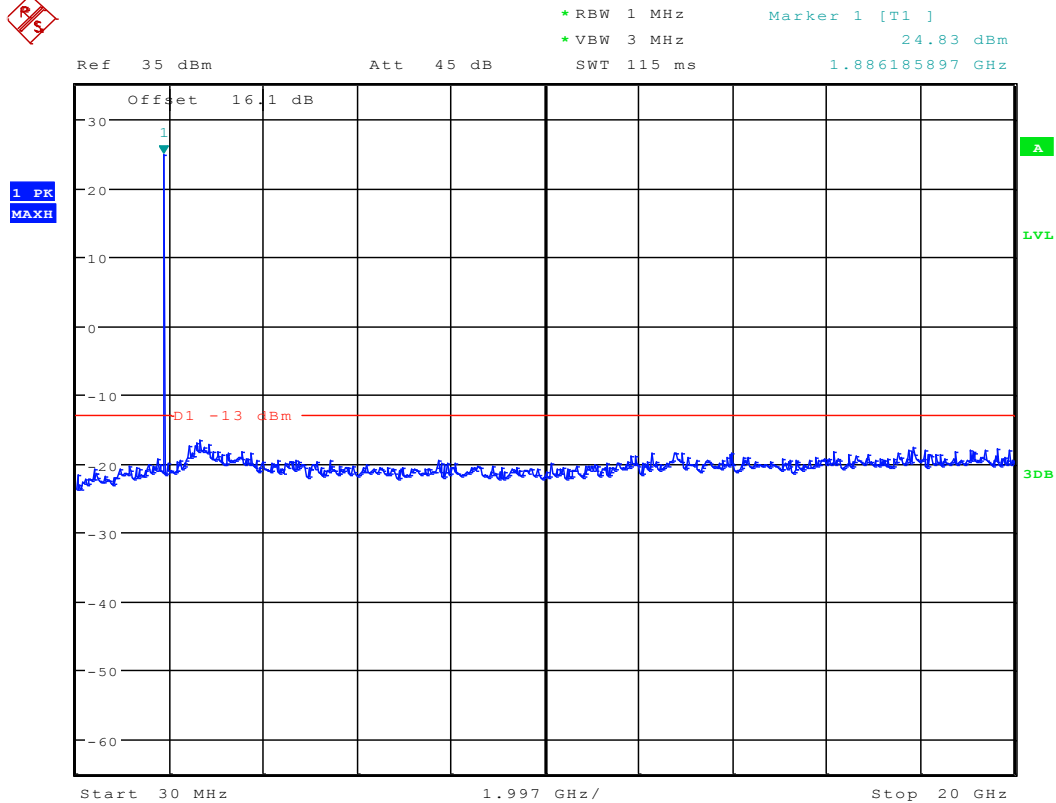
Date: 27.APR.2012 01:20:06



1 PK
MAXH



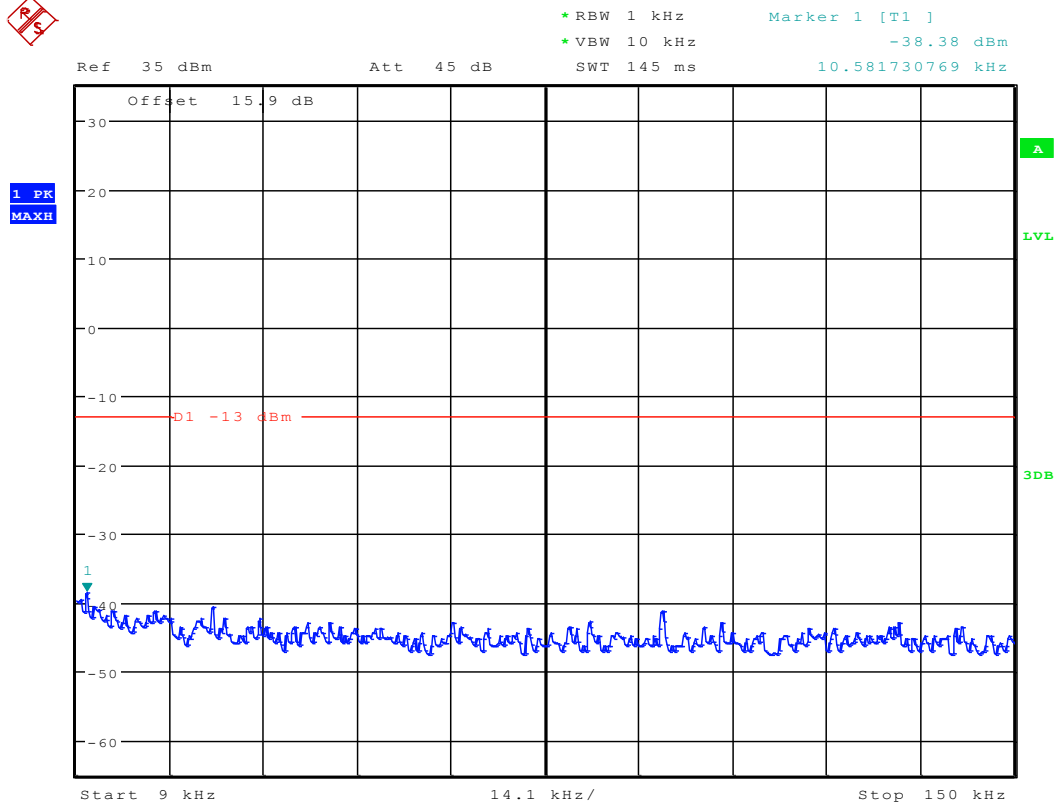
Date: 27.APR.2012 01:20:32



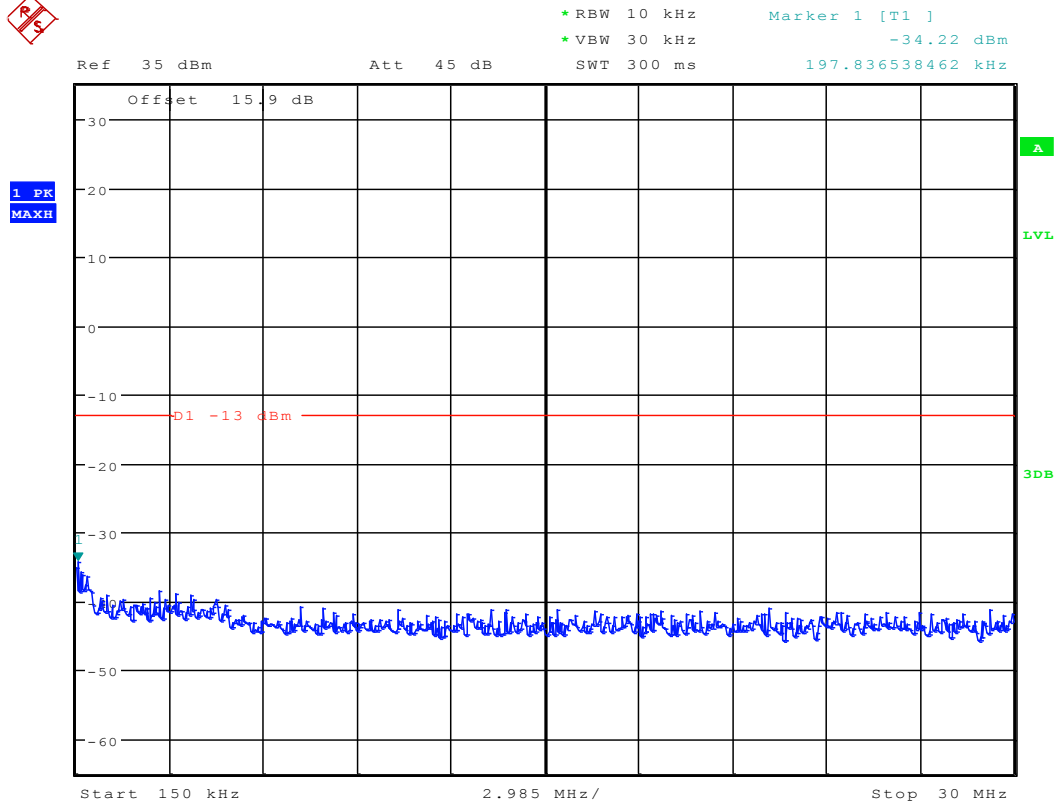
Date: 27.APR.2012 01:20:58



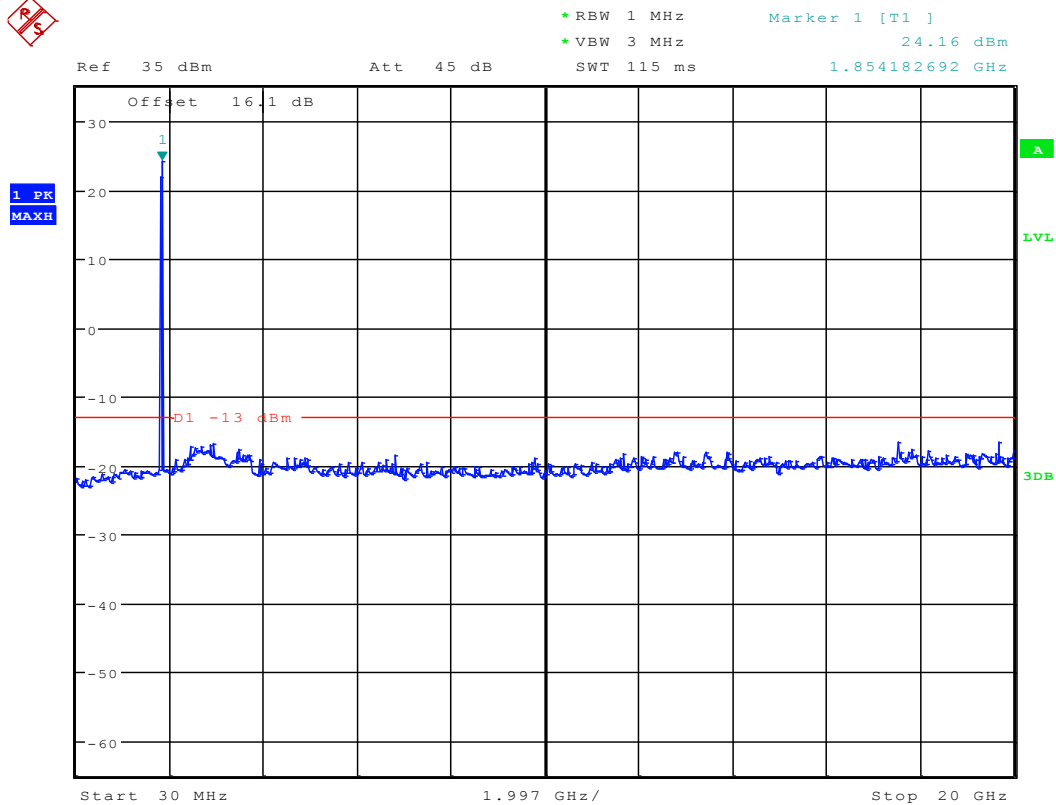
EVDO subtype 0 Channel 25



Date: 27.APR.2012 01:23:03



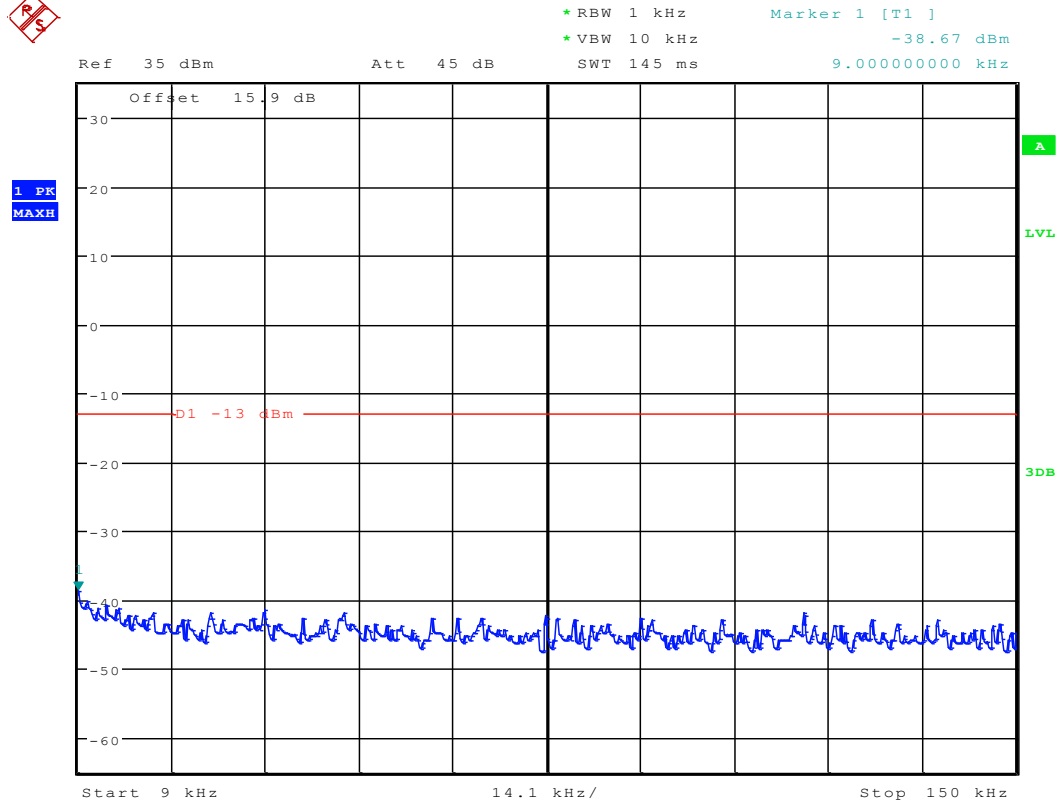
Date: 27.APR.2012 01:23:46



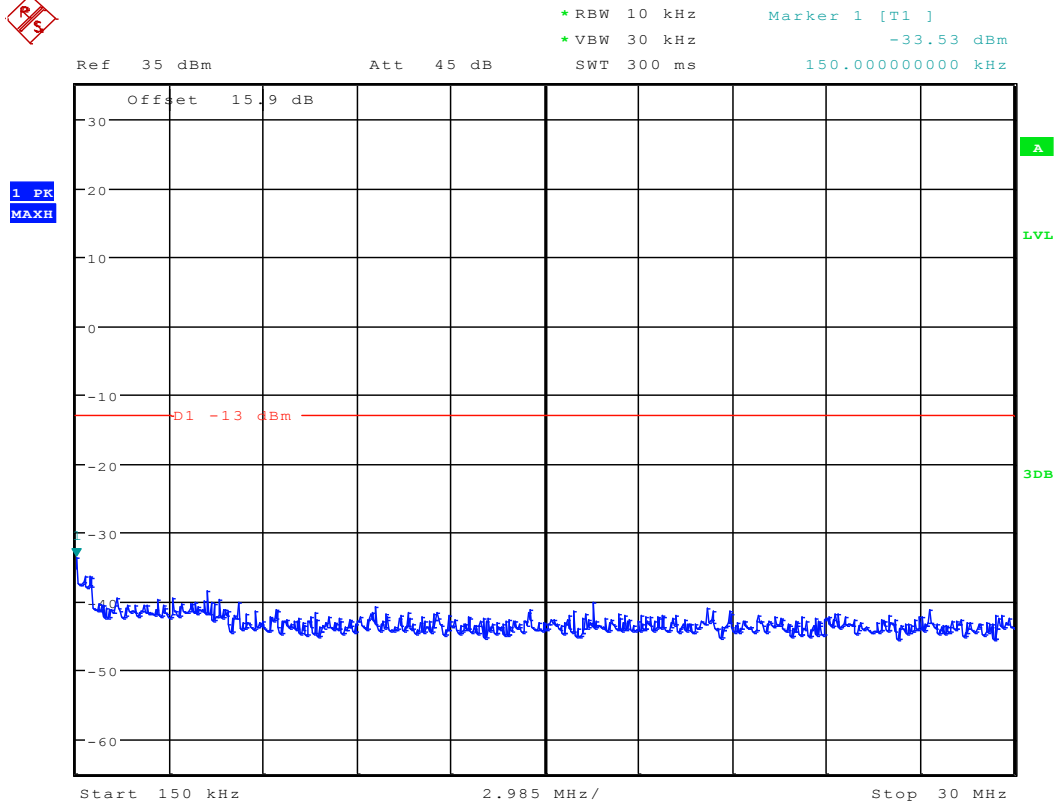
Date: 27.APR.2012 01:24:30



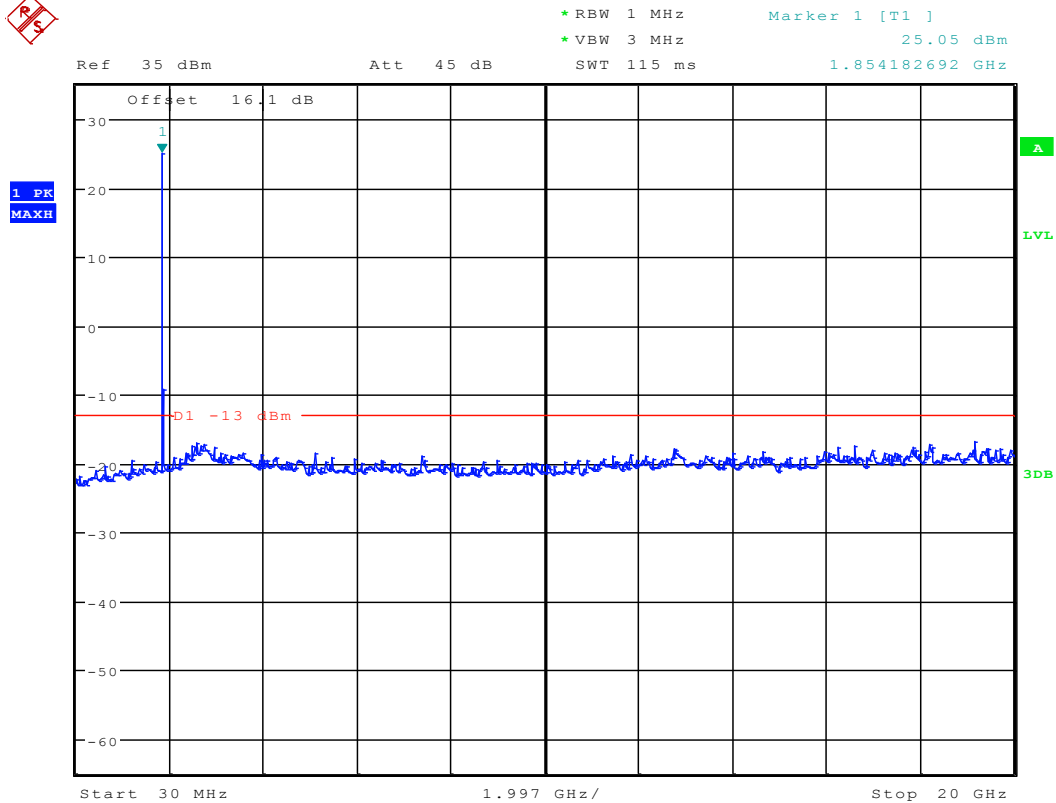
Channel 600



Date: 27.APR.2012 01:23:17



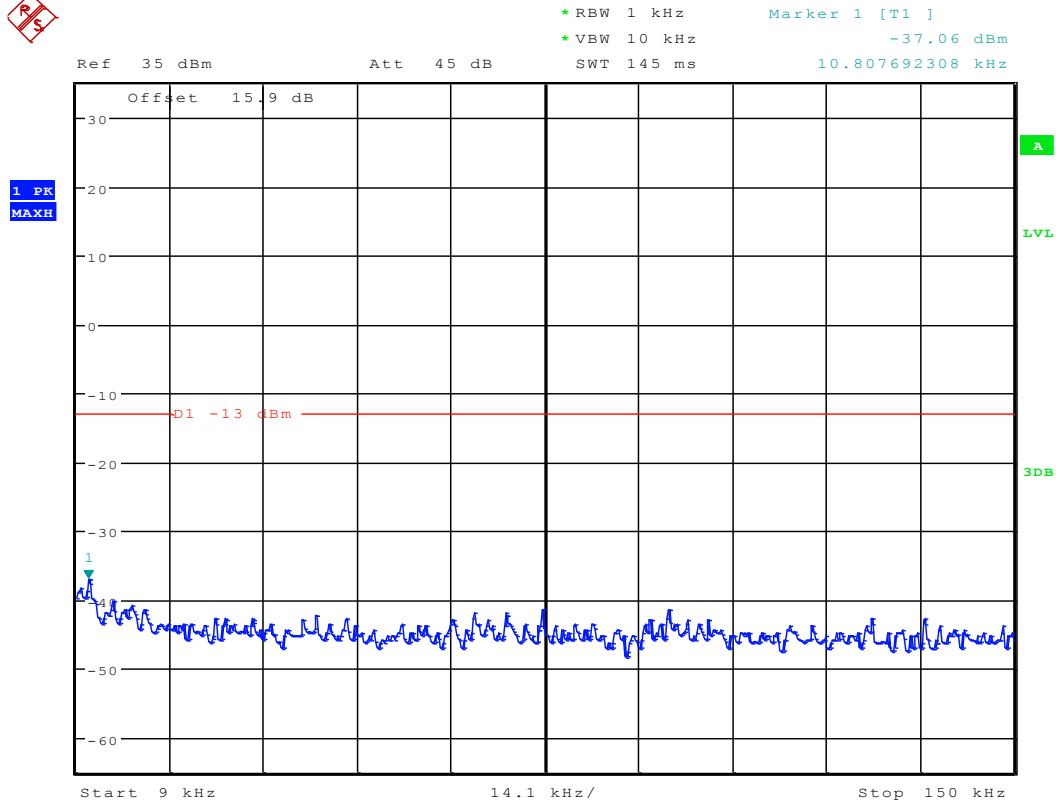
Date: 27.APR.2012 01:24:01



Date: 27.APR.2012 01:24:45



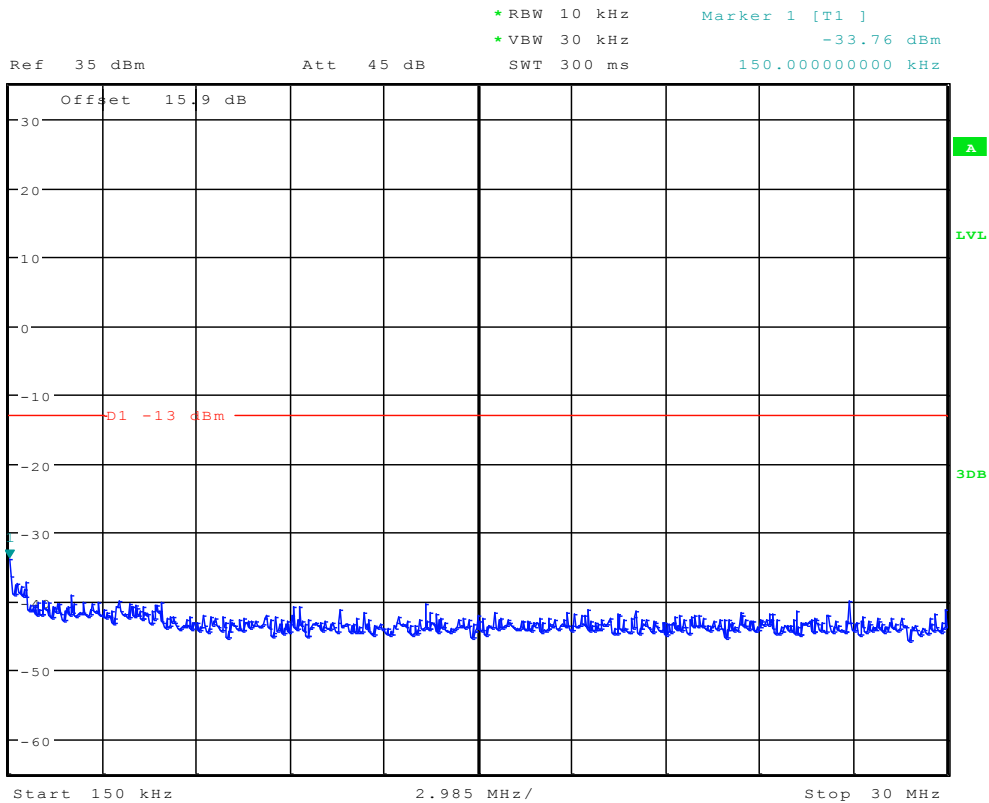
Channel 1175



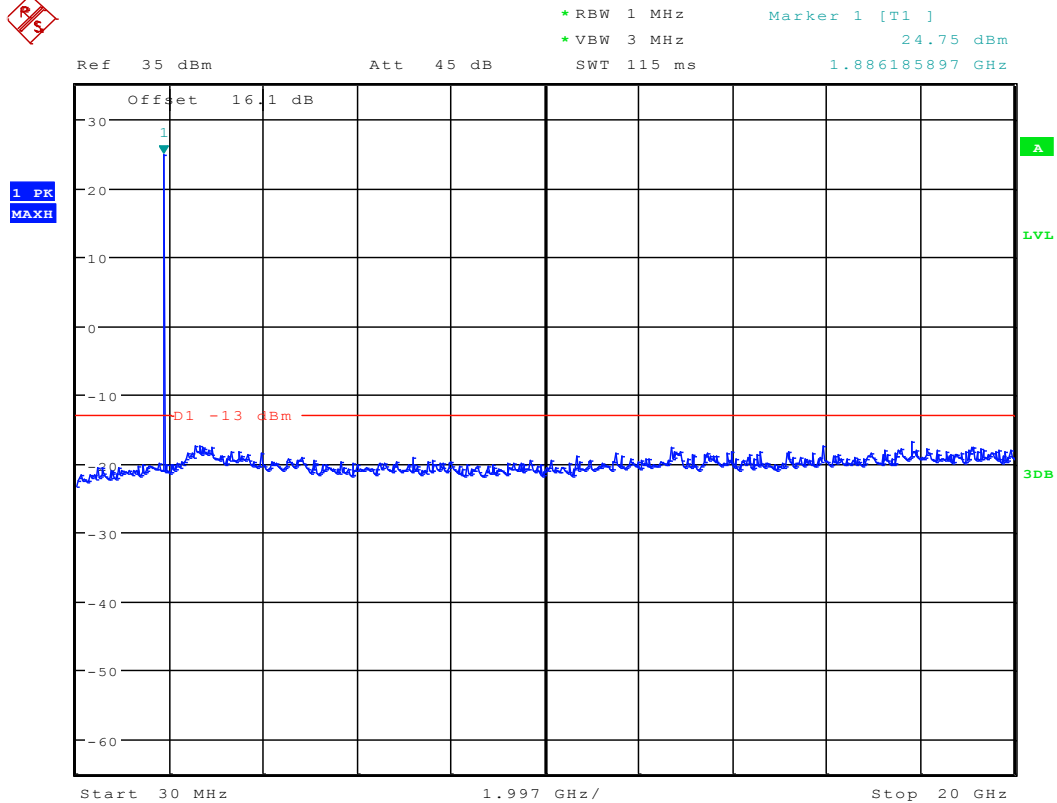
Date: 27.APR.2012 01:23:32



1 PK
MAXH



Date: 27.APR.2012 01:24:15

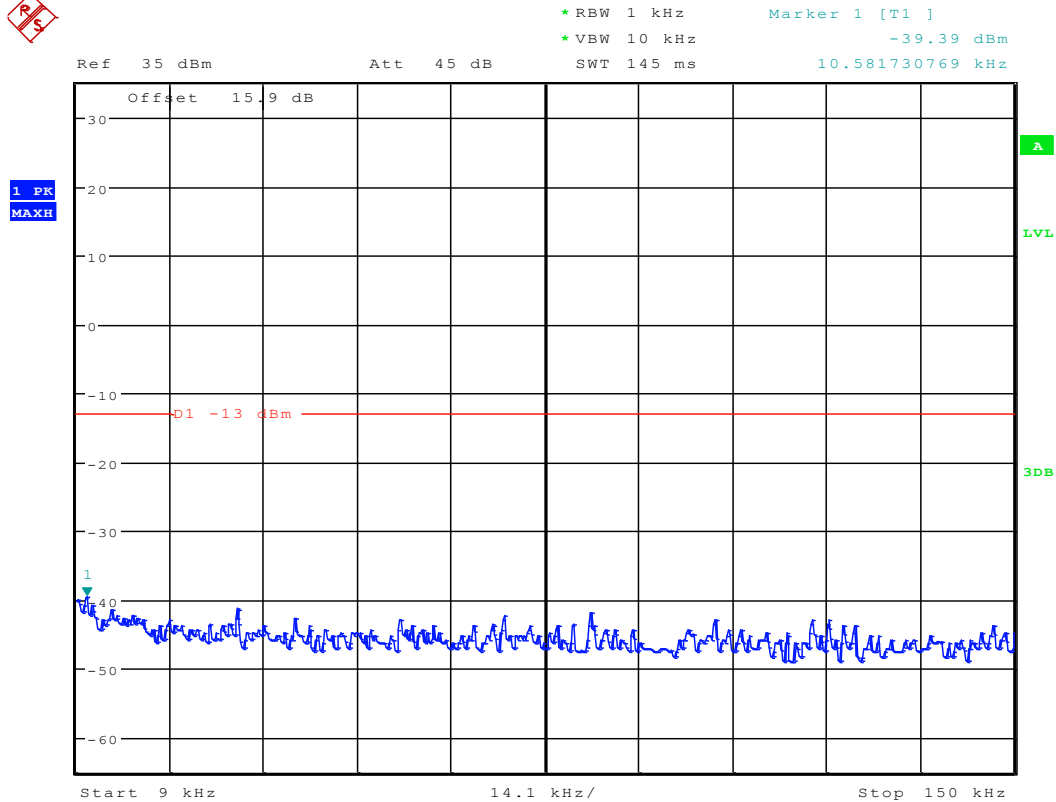


Date: 27.APR.2012 01:24:59



EVDO subtype 2

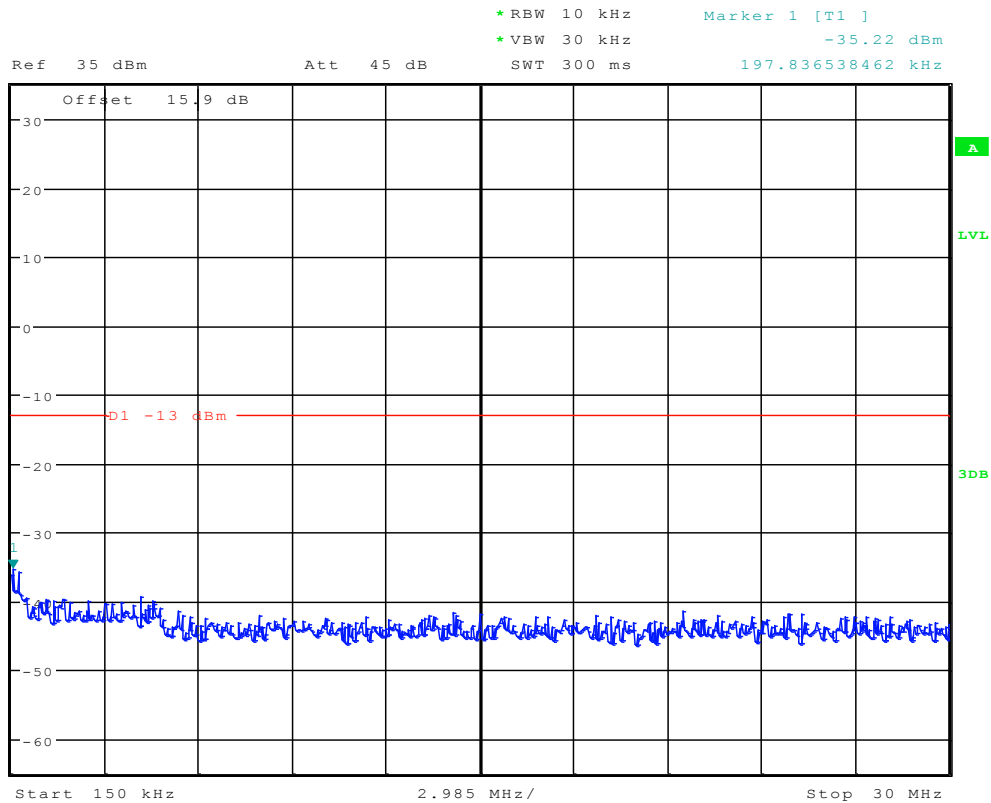
Modulation: BPSK
Channel 25



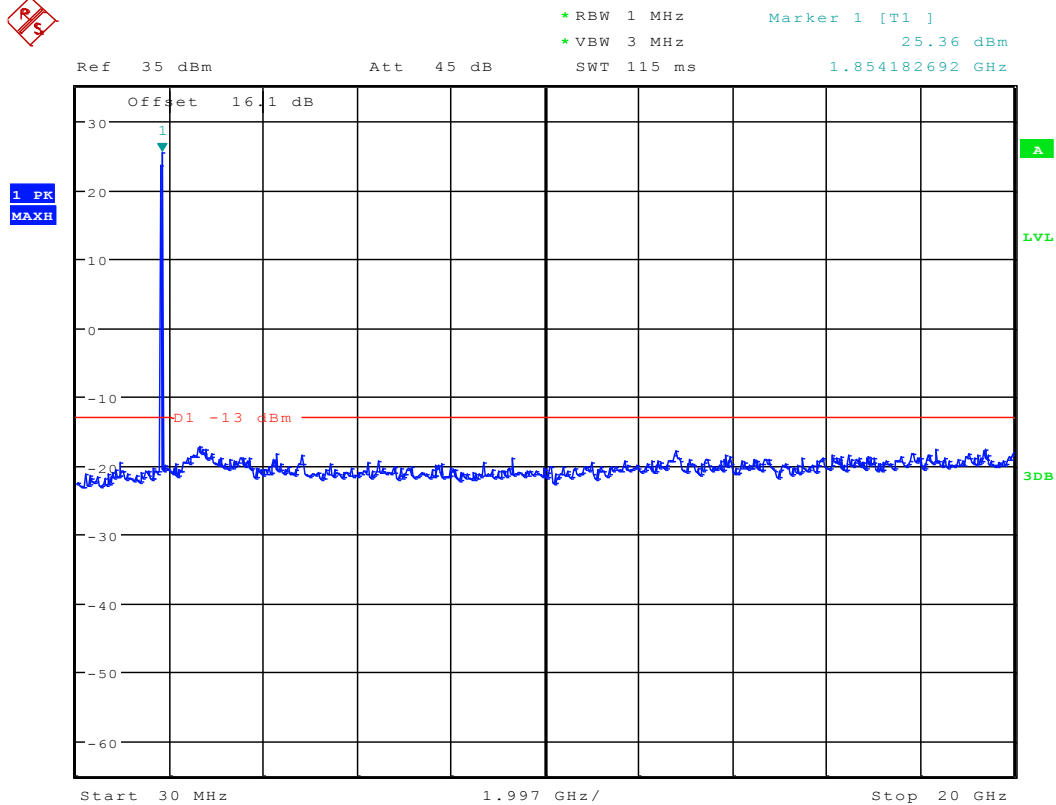
Date: 27.APR.2012 01:29:02



1 PK
MAXH



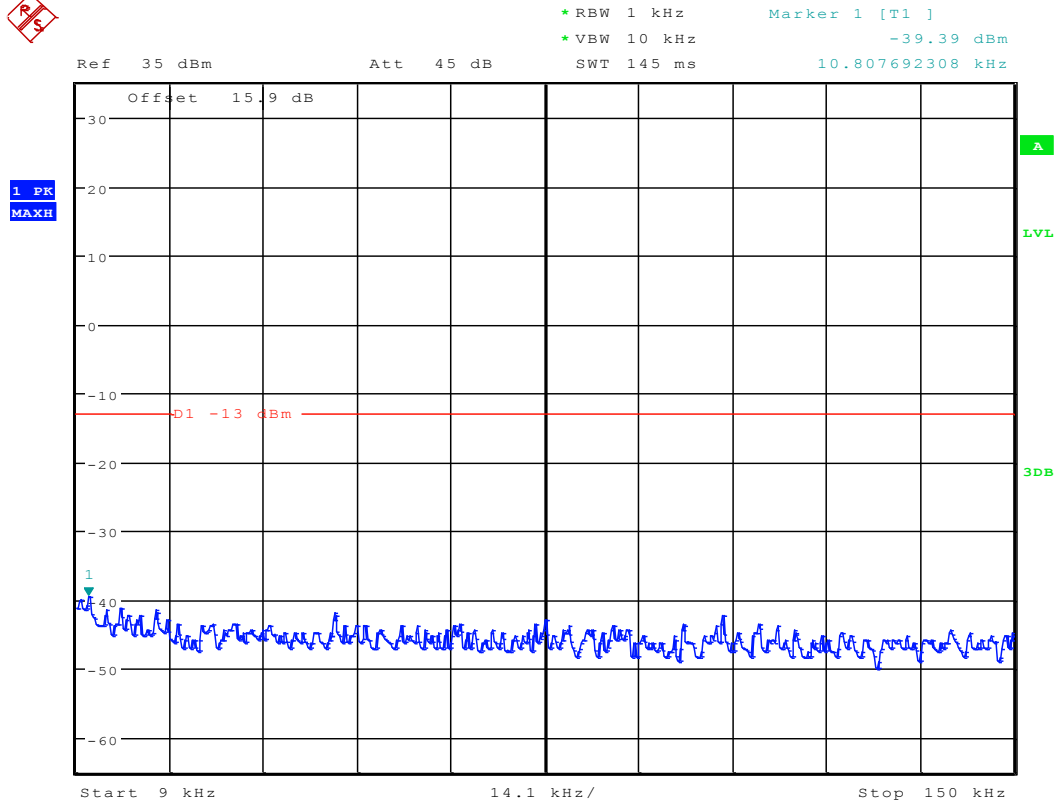
Date: 27.APR.2012 01:29:27



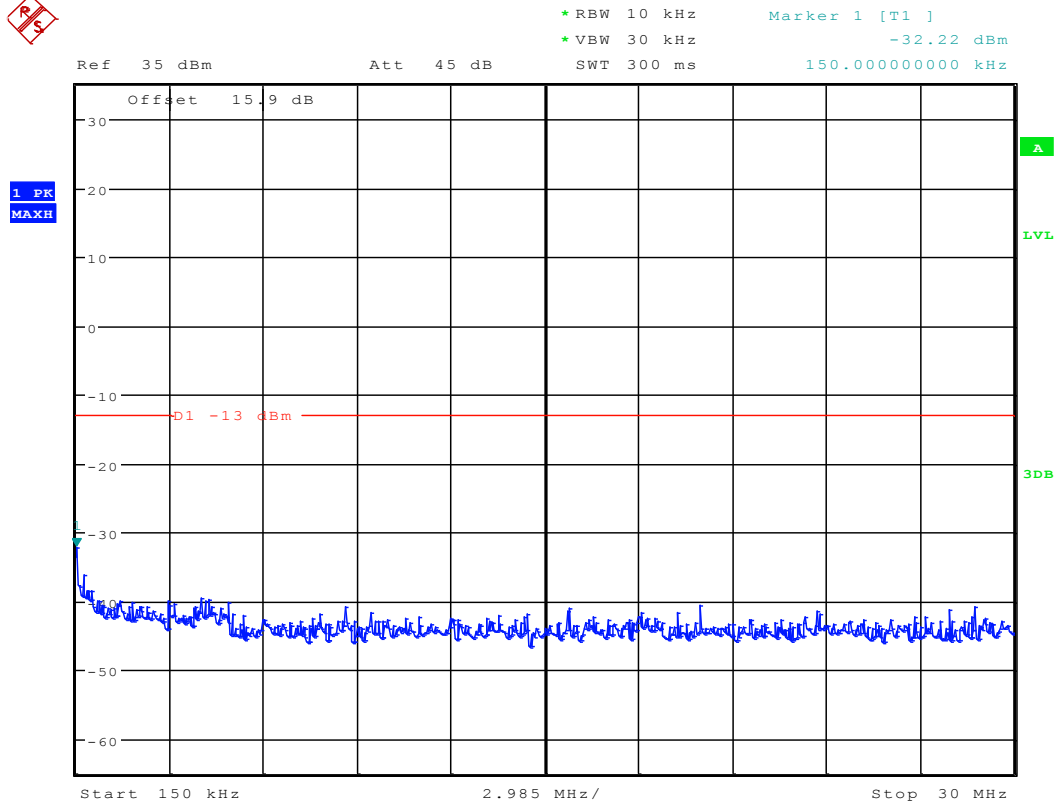
Date: 27.APR.2012 01:29:53



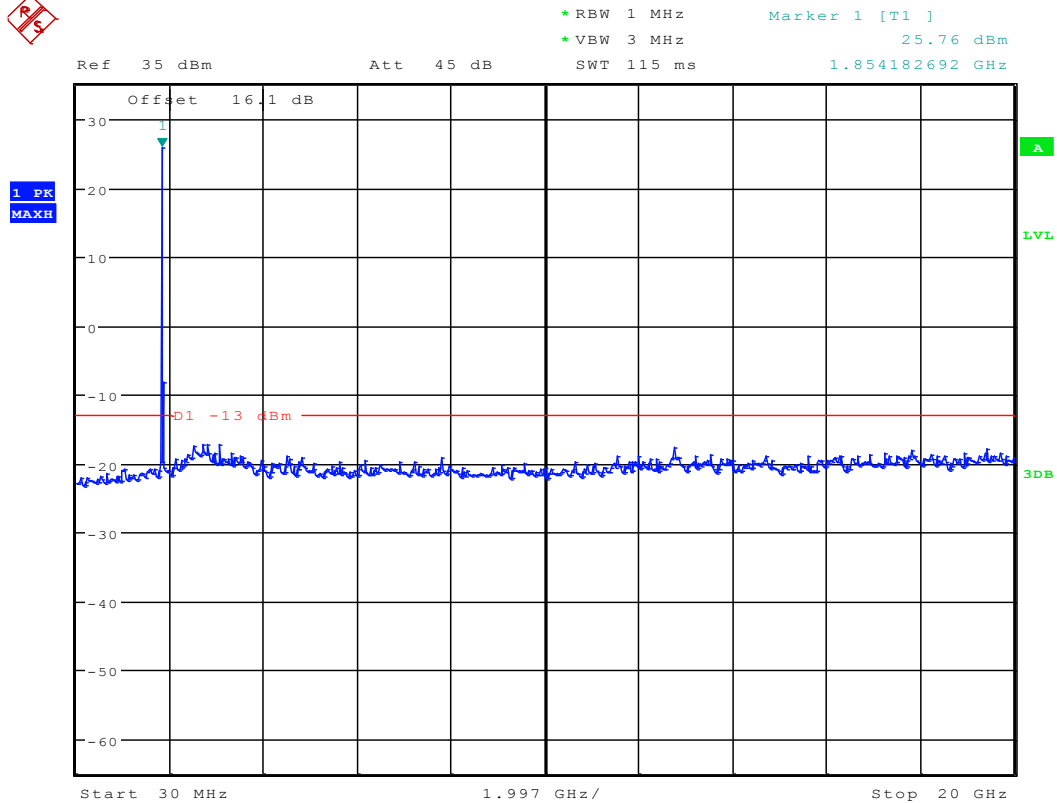
Channel 600



Date: 27.APR.2012 01:29:10



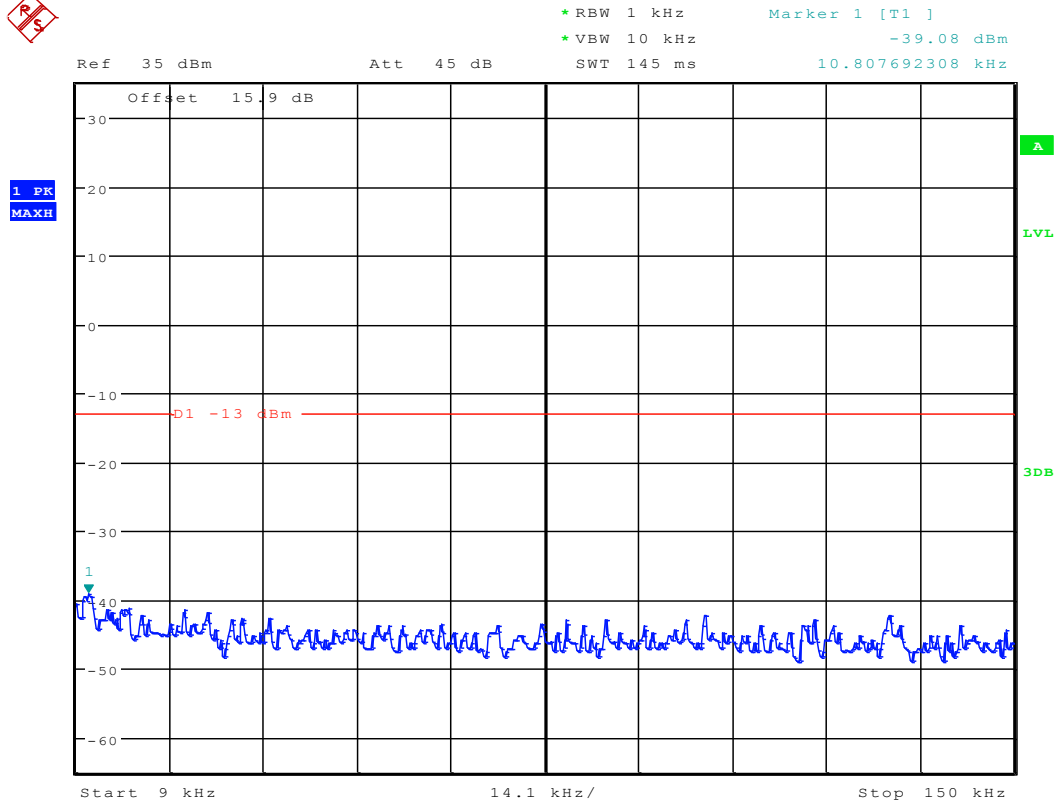
Date: 27.APR.2012 01:29:36



Date: 27.APR.2012 01:30:02



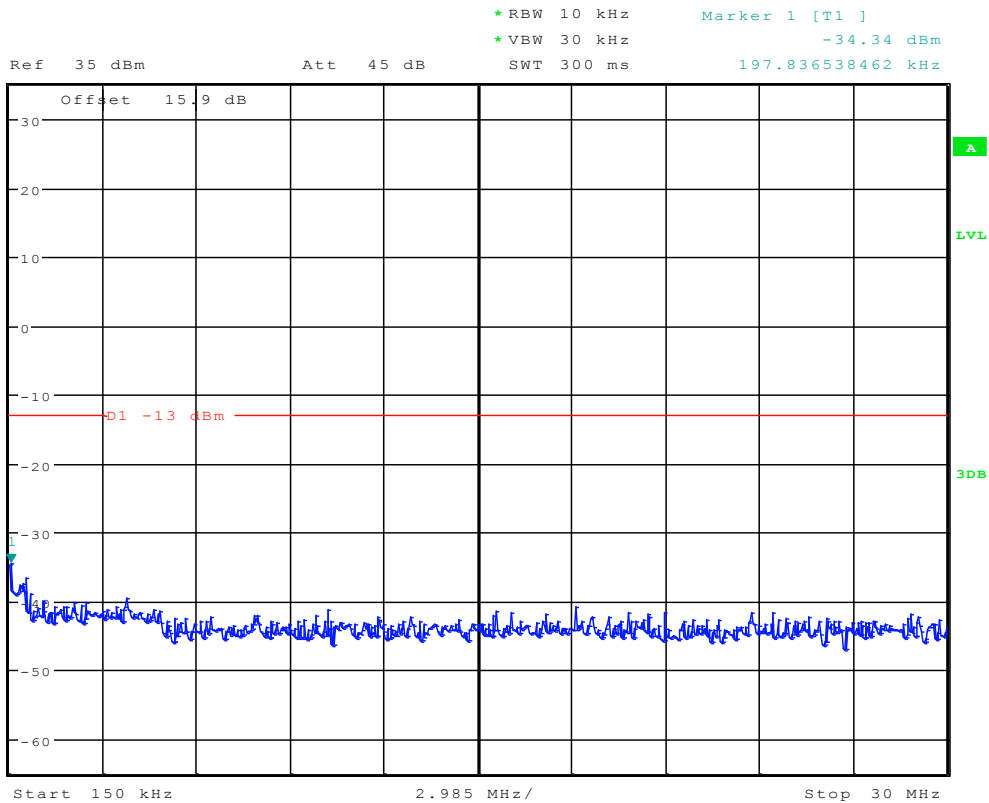
Channel 1175



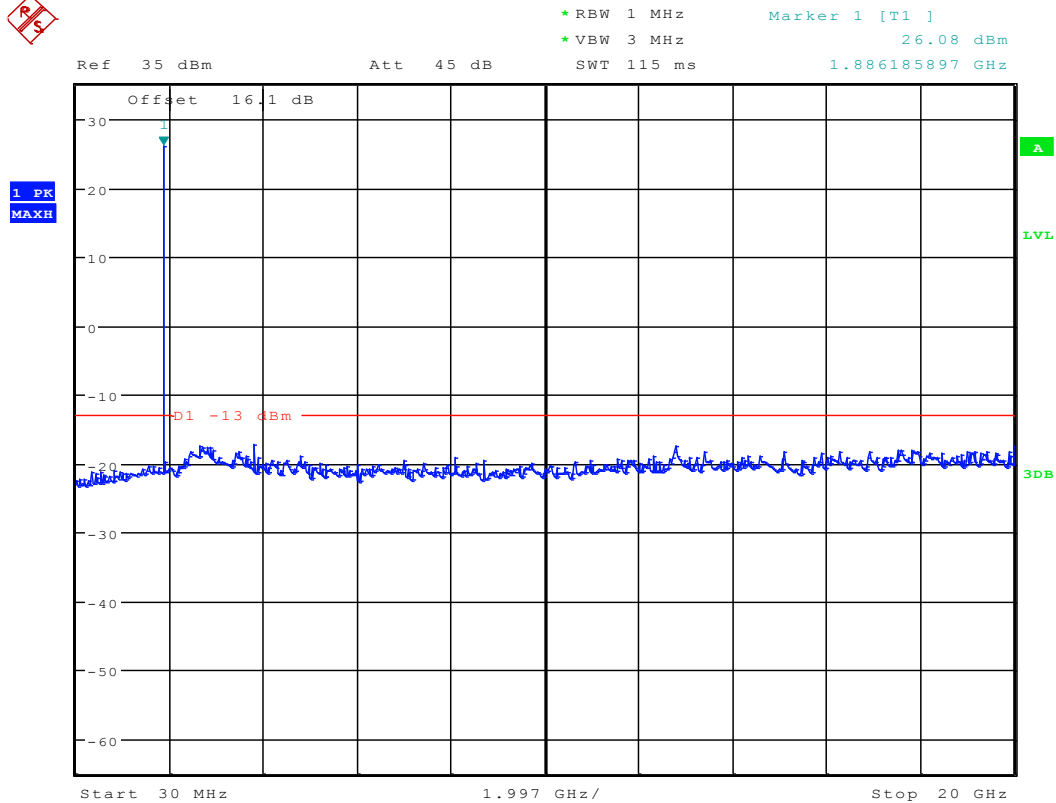
Date: 27.APR.2012 01:29:19



1 PK
MAXH



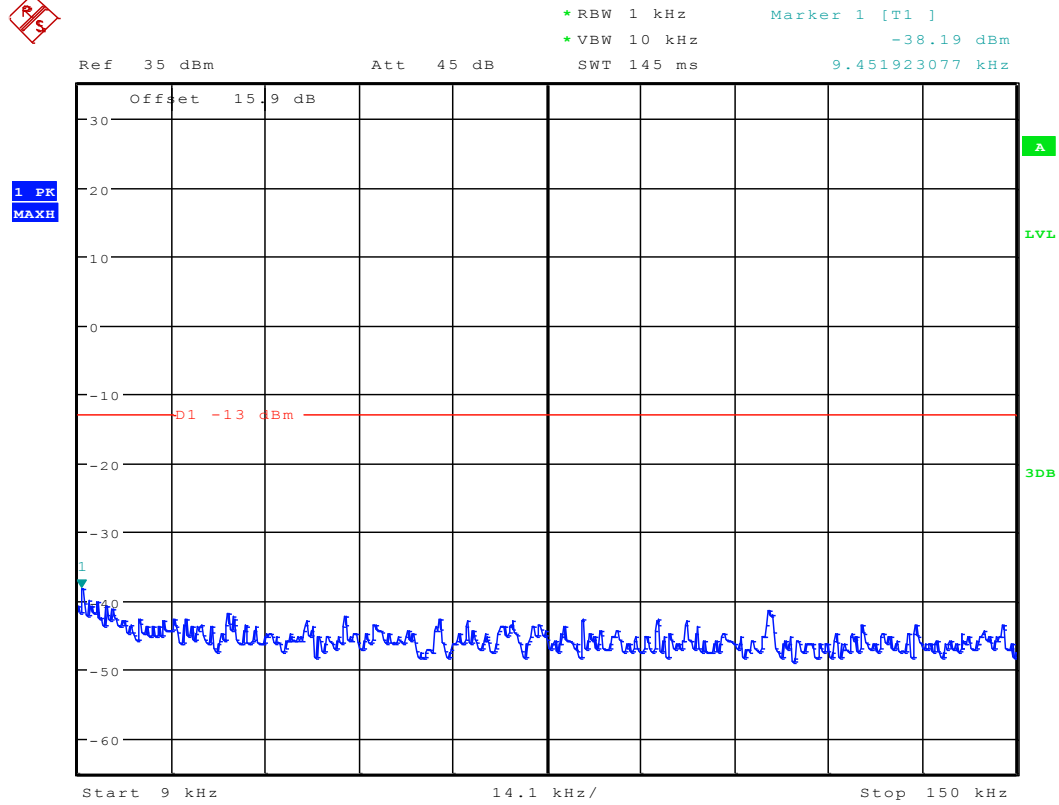
Date: 27.APR.2012 01:29:44



Date: 27.APR.2012 01:30:10



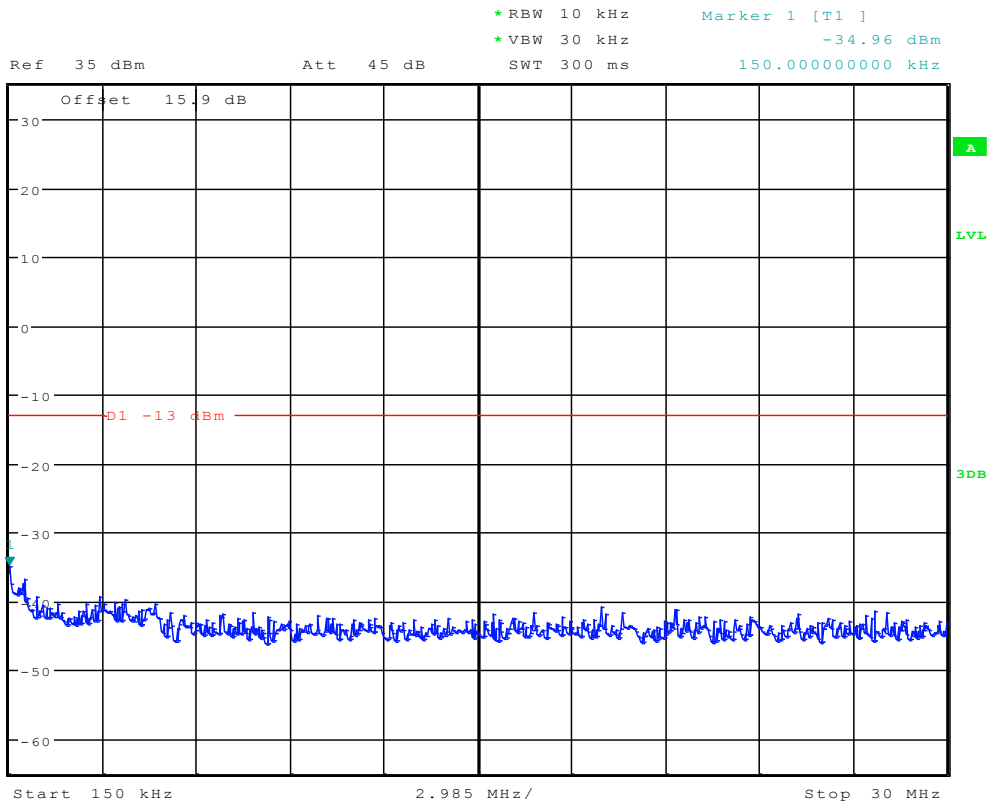
Modulation: QPSK
Channel 25



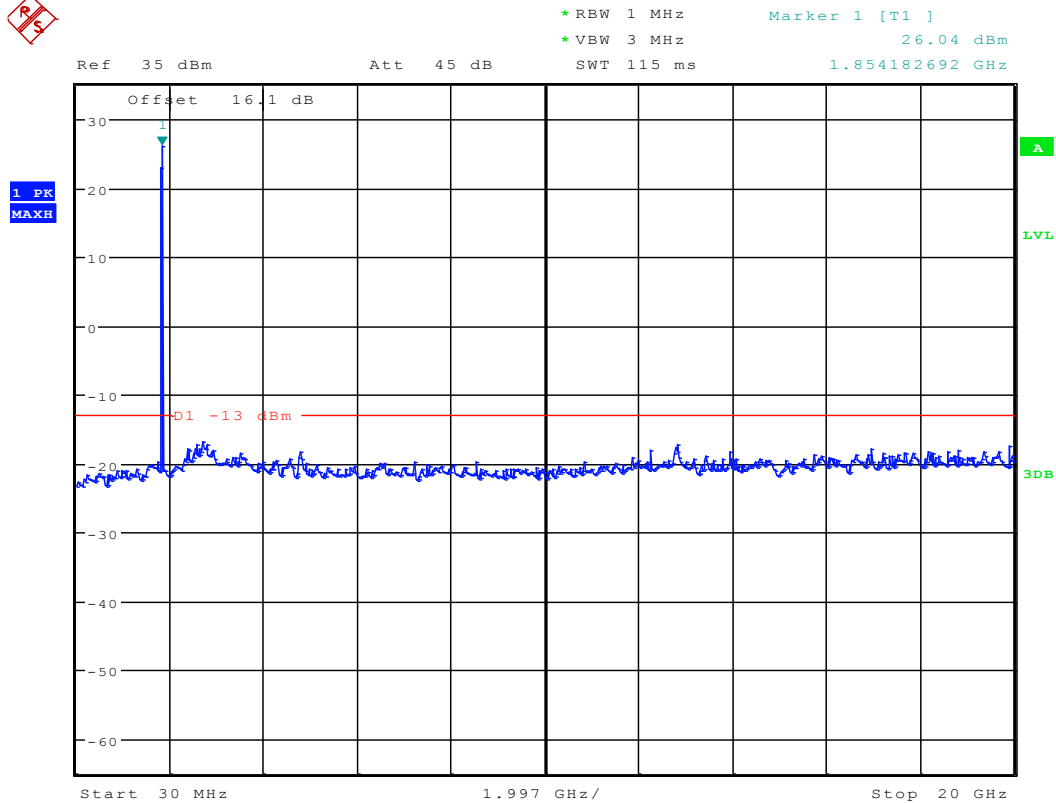
Date: 27.APR.2012 01:30:19



1 PK
MAXH



Date: 27.APR.2012 01:30:44



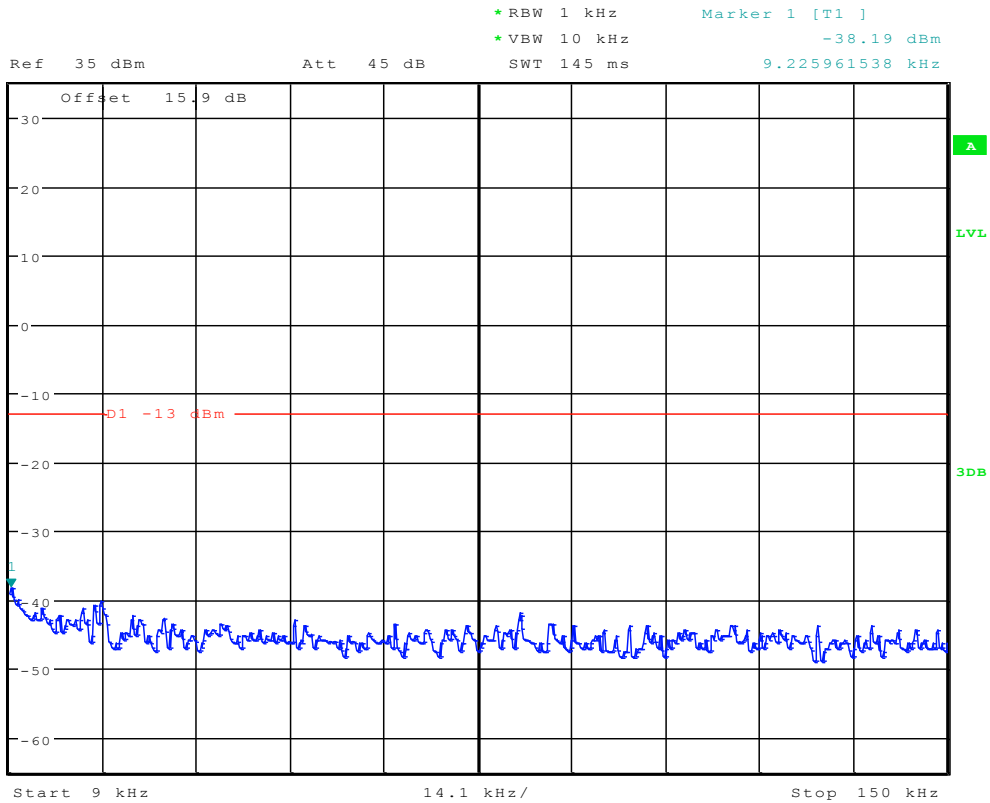
Date: 27.APR.2012 01:31:10



Channel 600



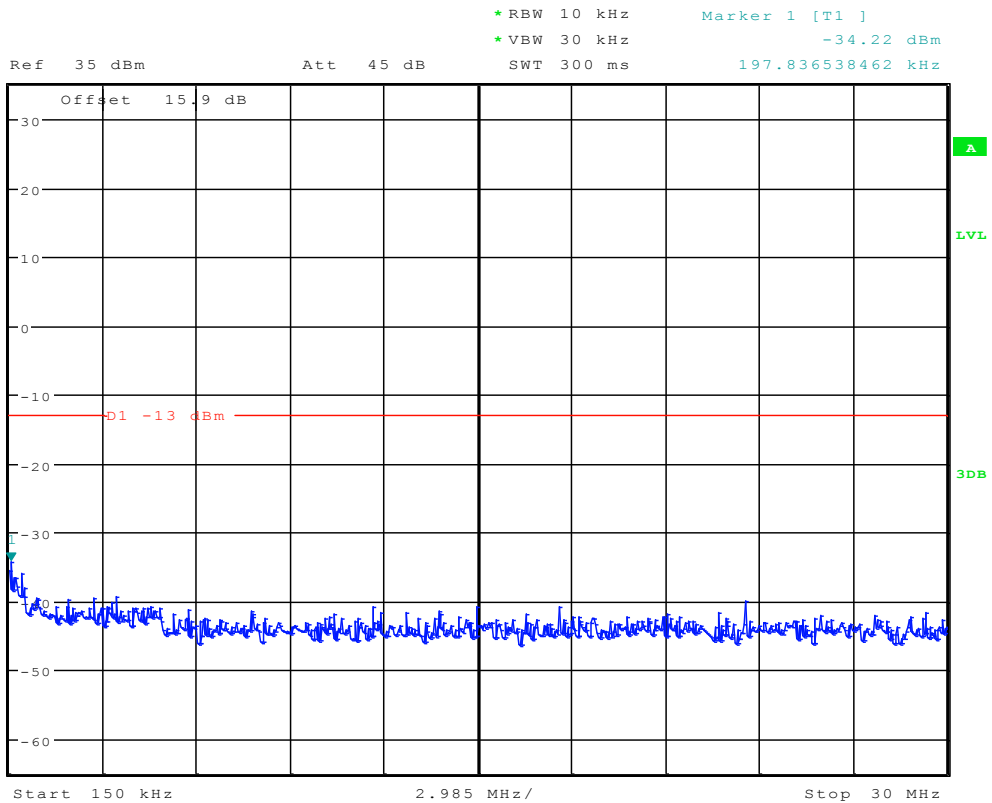
1 PK
MAXH



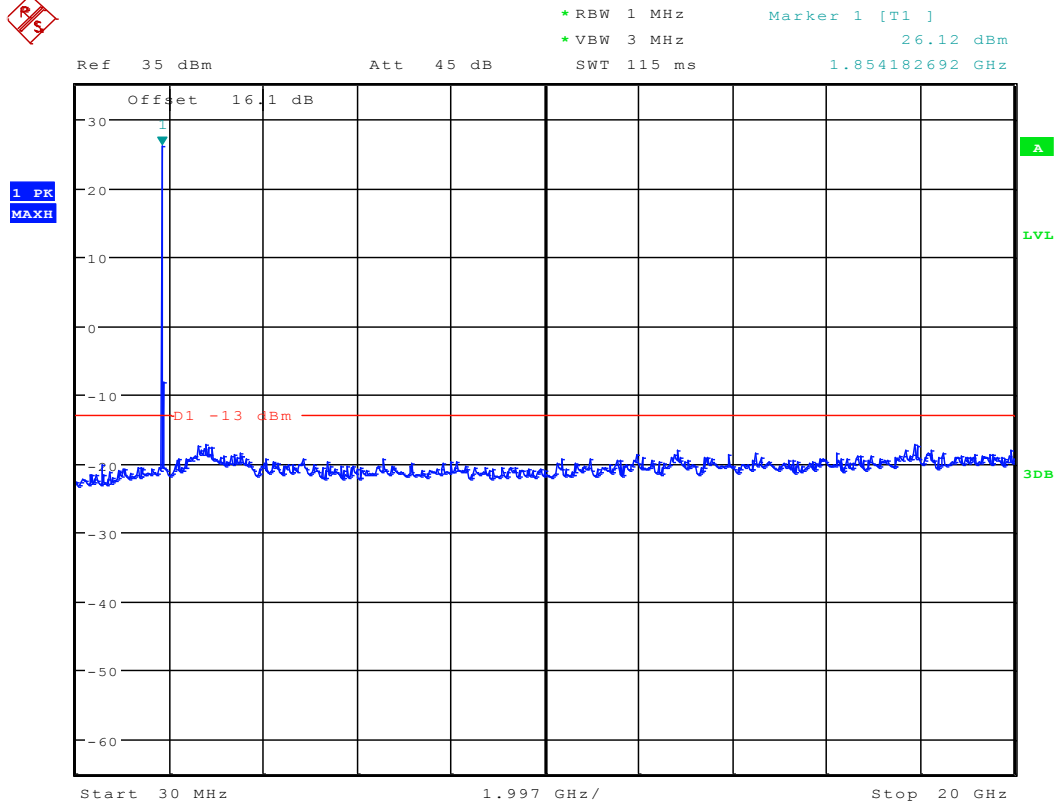
Date: 27.APR.2012 01:30:27



1 PK
MAXH



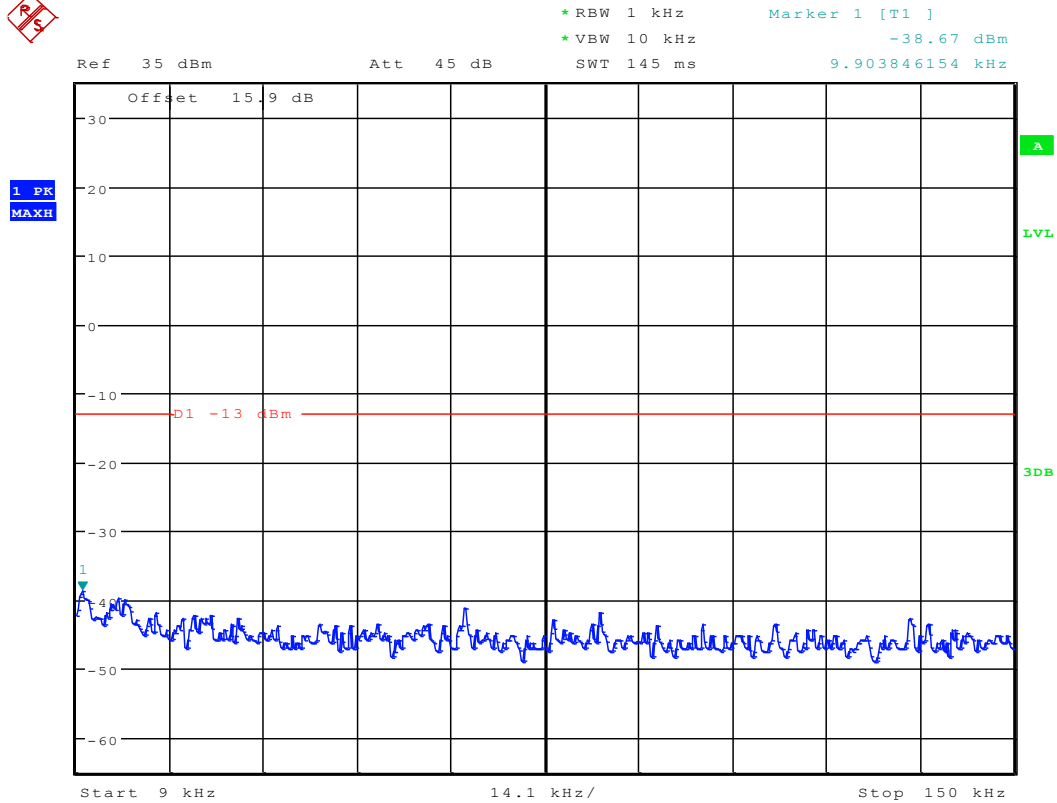
Date: 27.APR.2012 01:30:53



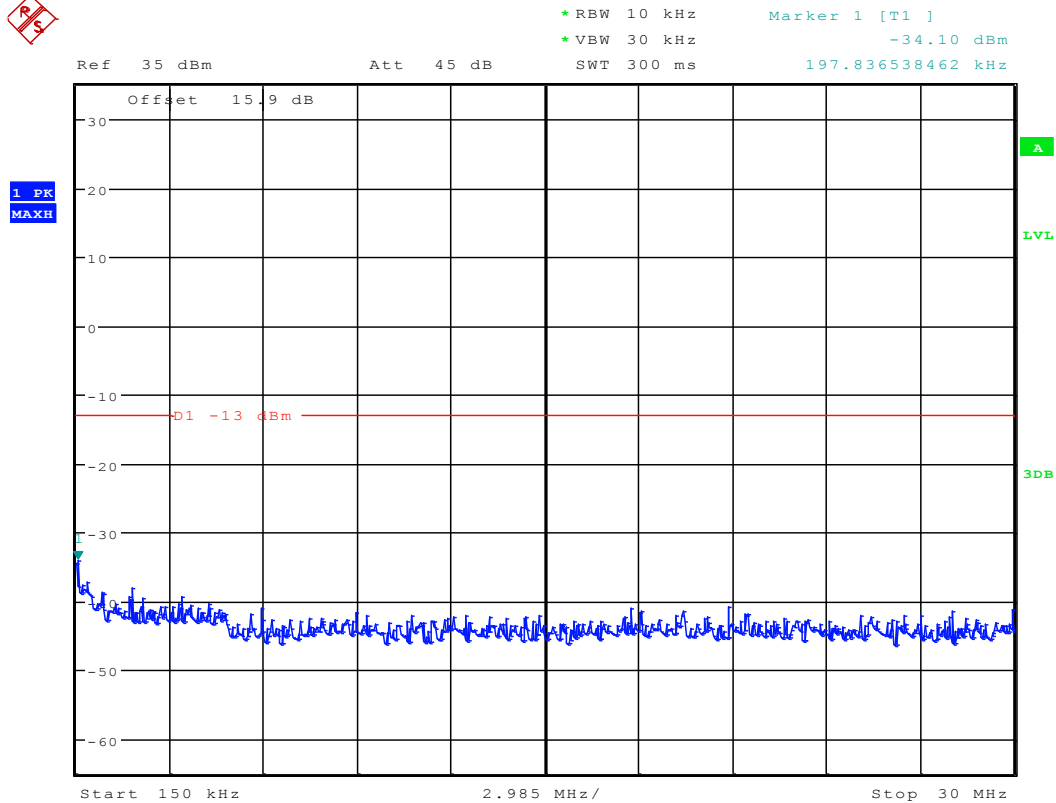
Date: 27.APR.2012 01:31:19



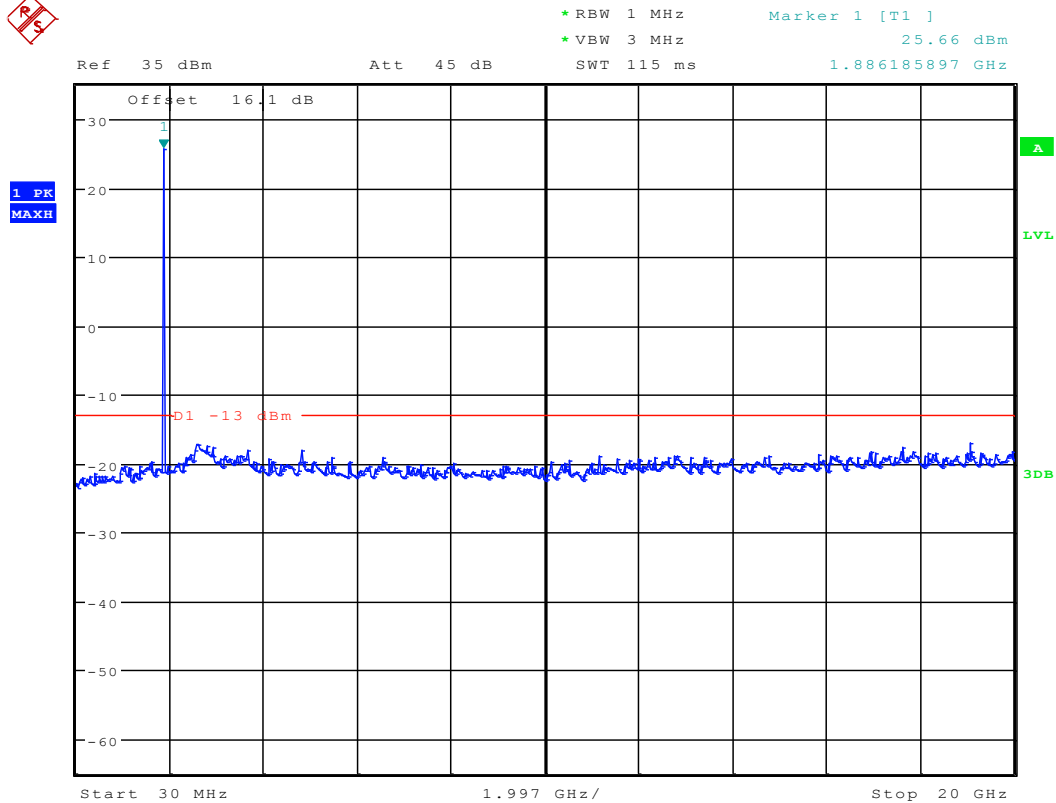
Channel 1175



Date: 27.APR.2012 01:30:36



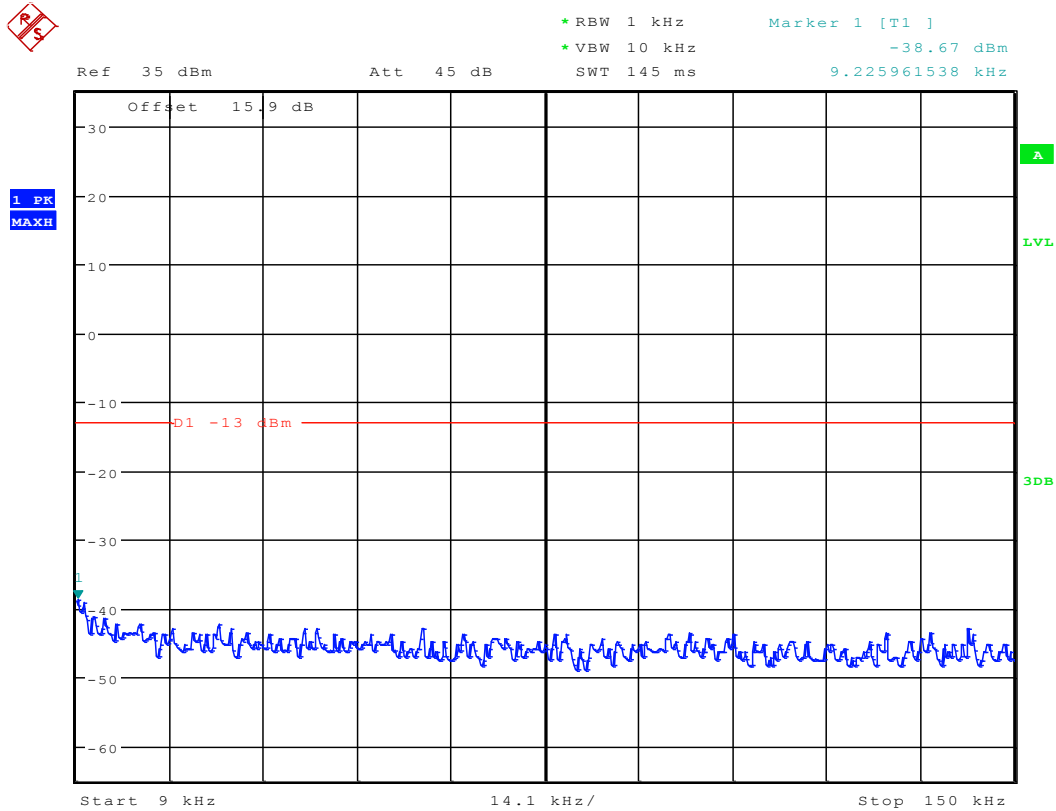
Date: 27.APR.2012 01:31:01



Date: 27.APR.2012 01:31:27



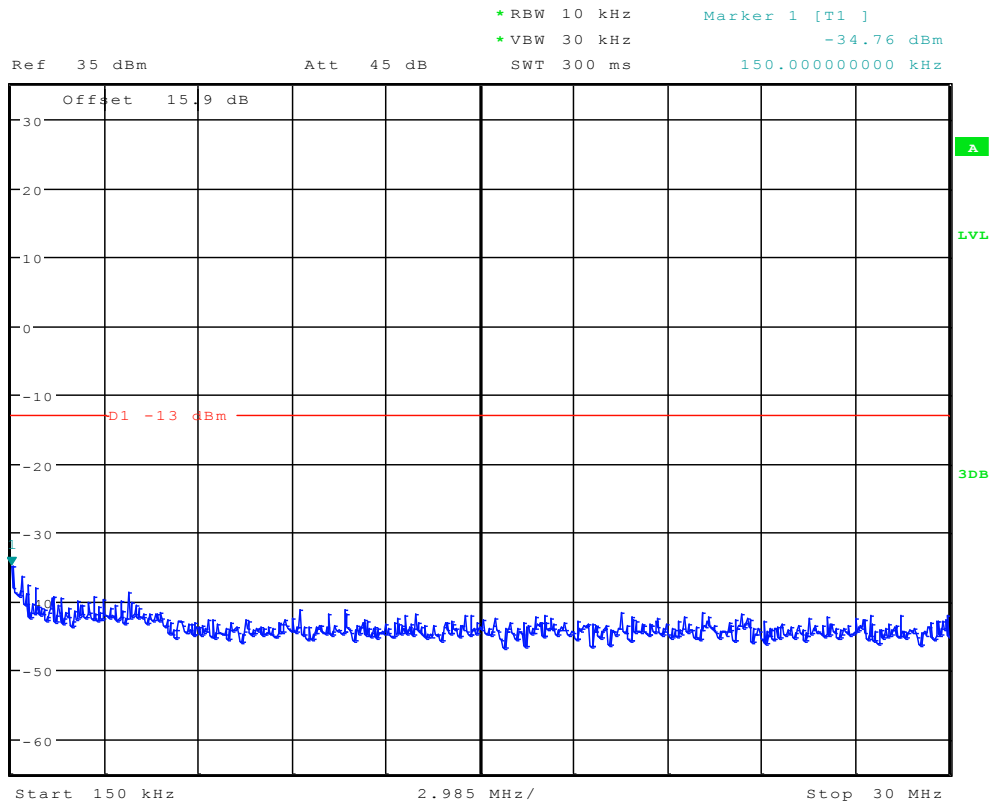
Modulation: 8PSK Channel 25



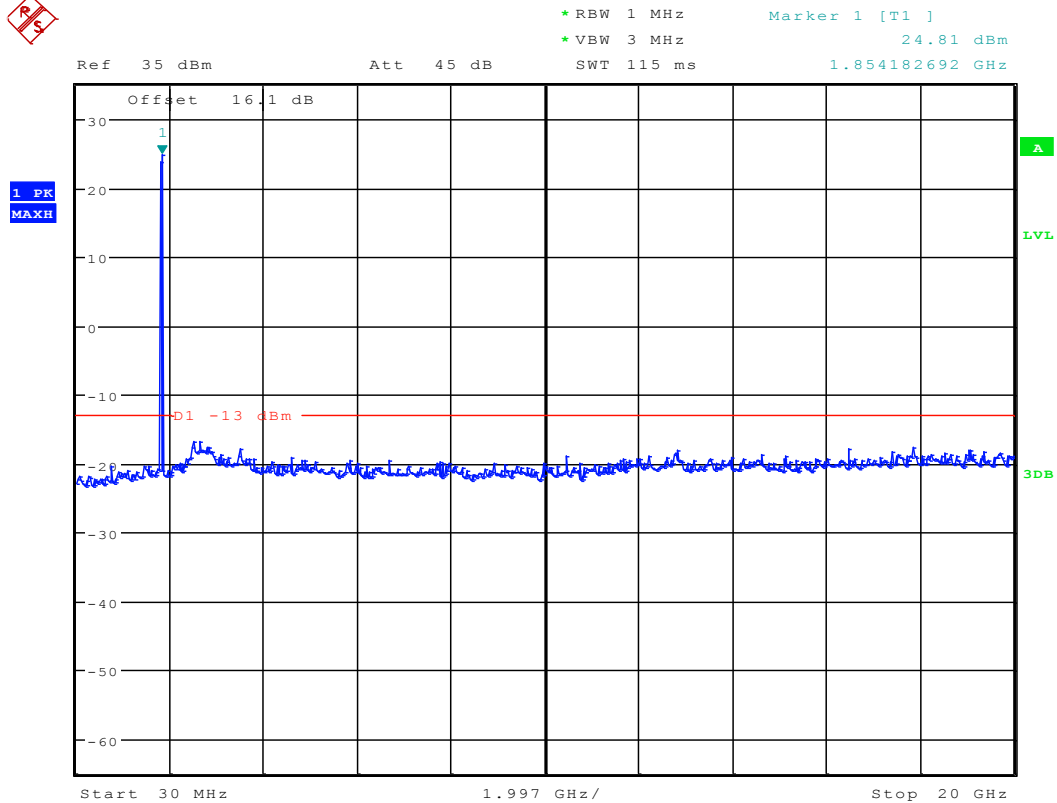
Date: 27.APR.2012 01:31:36



1 PK
MAXH



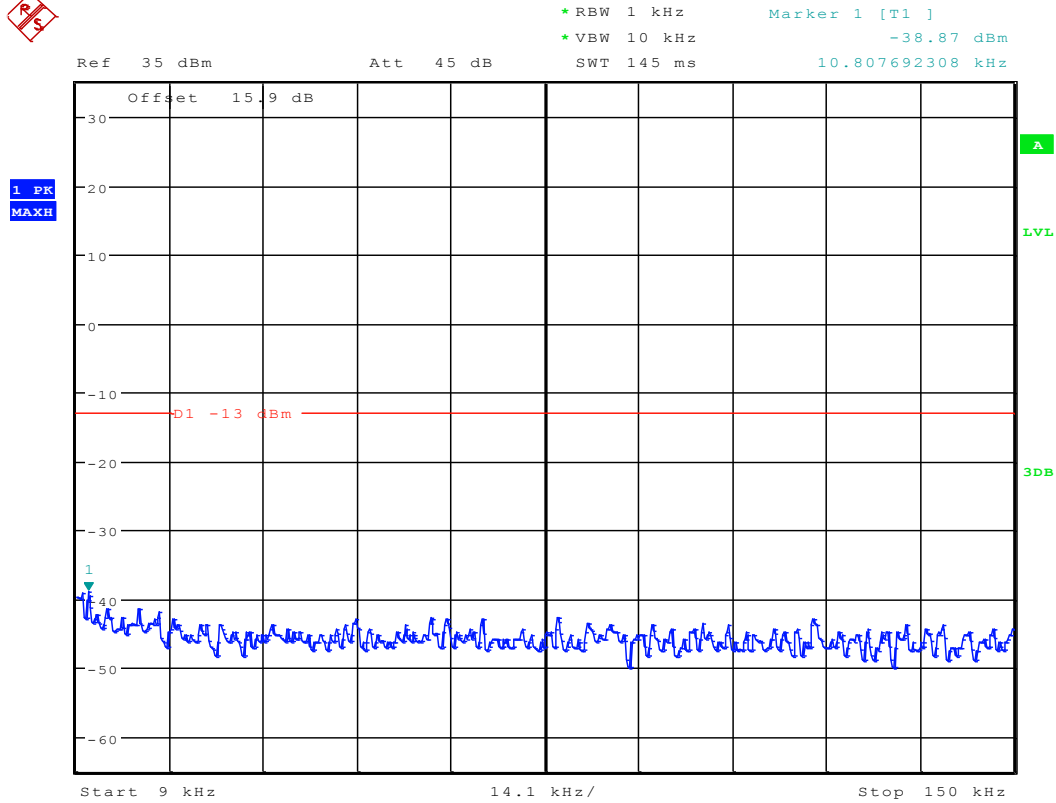
Date: 27.APR.2012 01:32:01



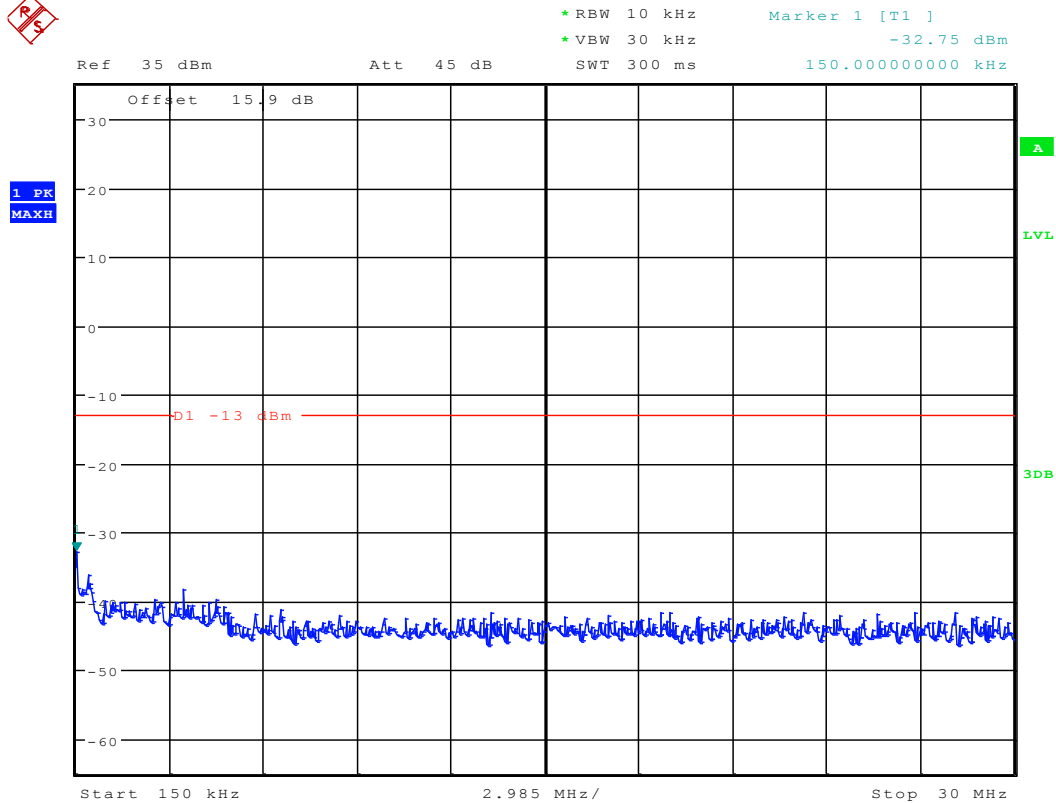
Date: 27.APR.2012 01:32:27



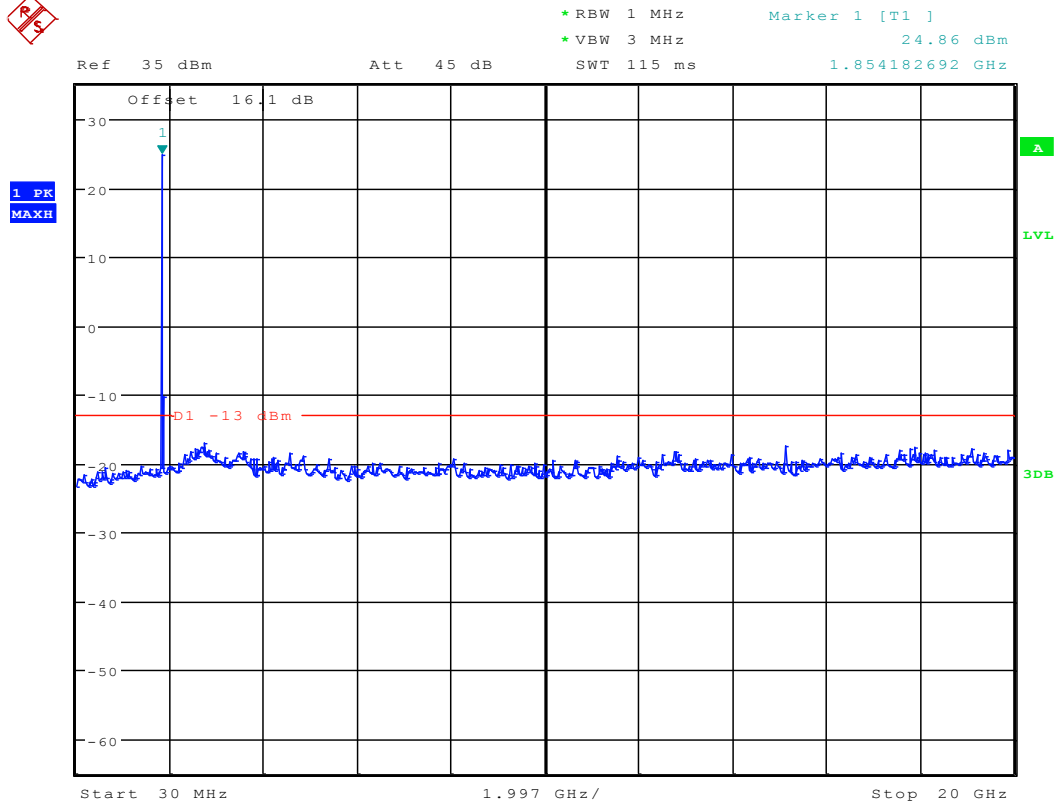
Channel 600



Date: 27.APR.2012 01:31:44



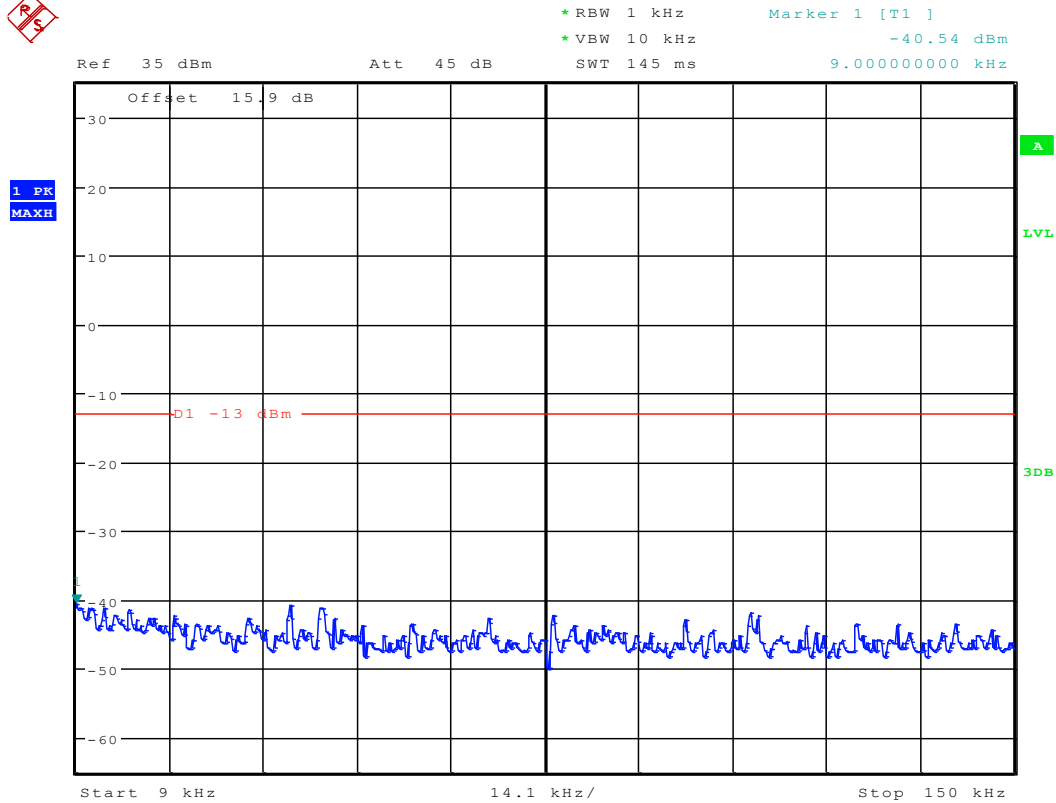
Date: 27.APR.2012 01:32:10



Date: 27.APR.2012 01:32:36



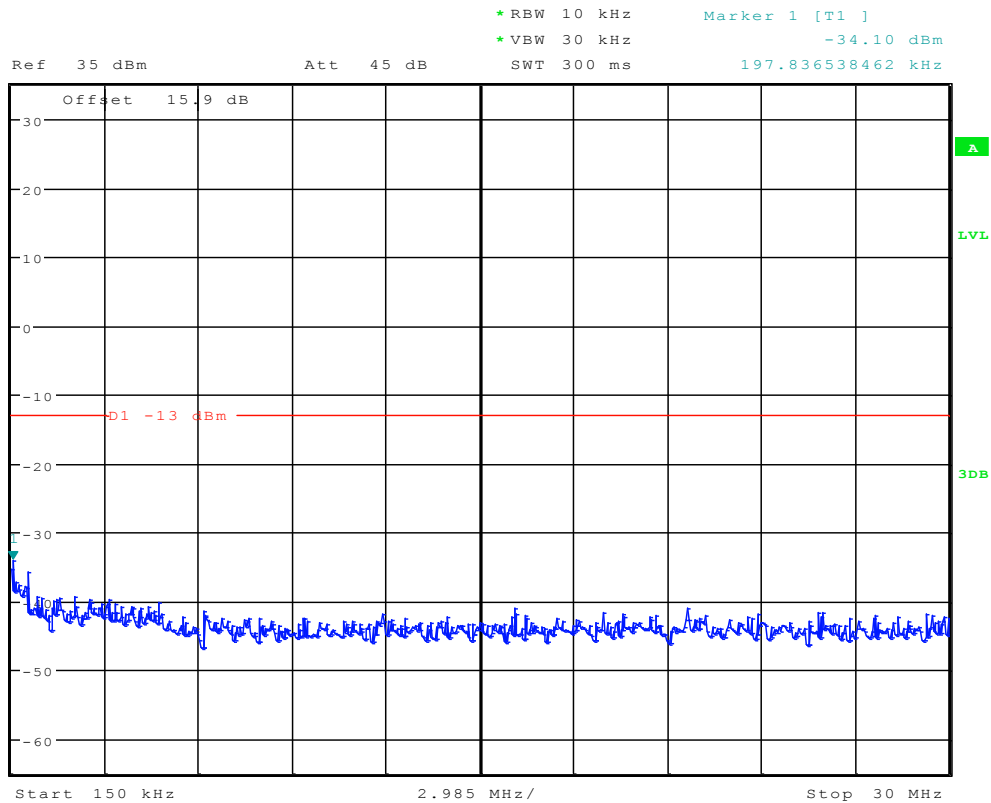
Channel 1175



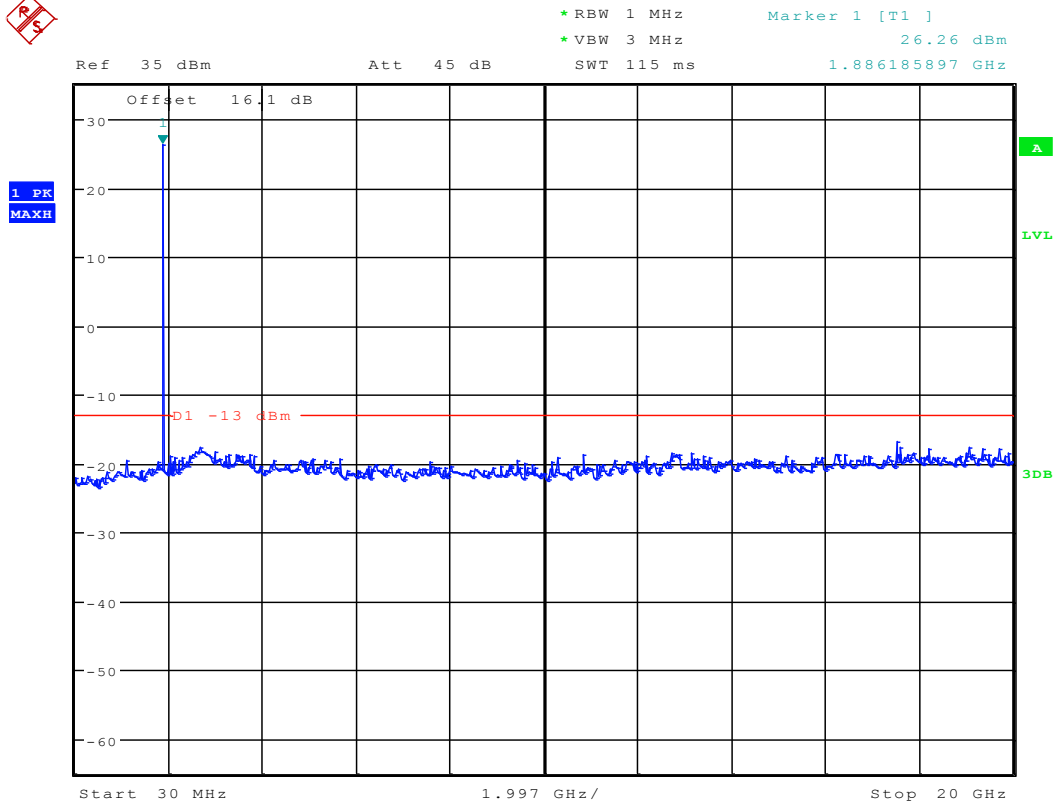
Date: 27.APR.2012 01:31:53



1 PK
MAXH



Date: 27.APR.2012 01:32:18



Date: 27.APR.2012 01:32:44

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

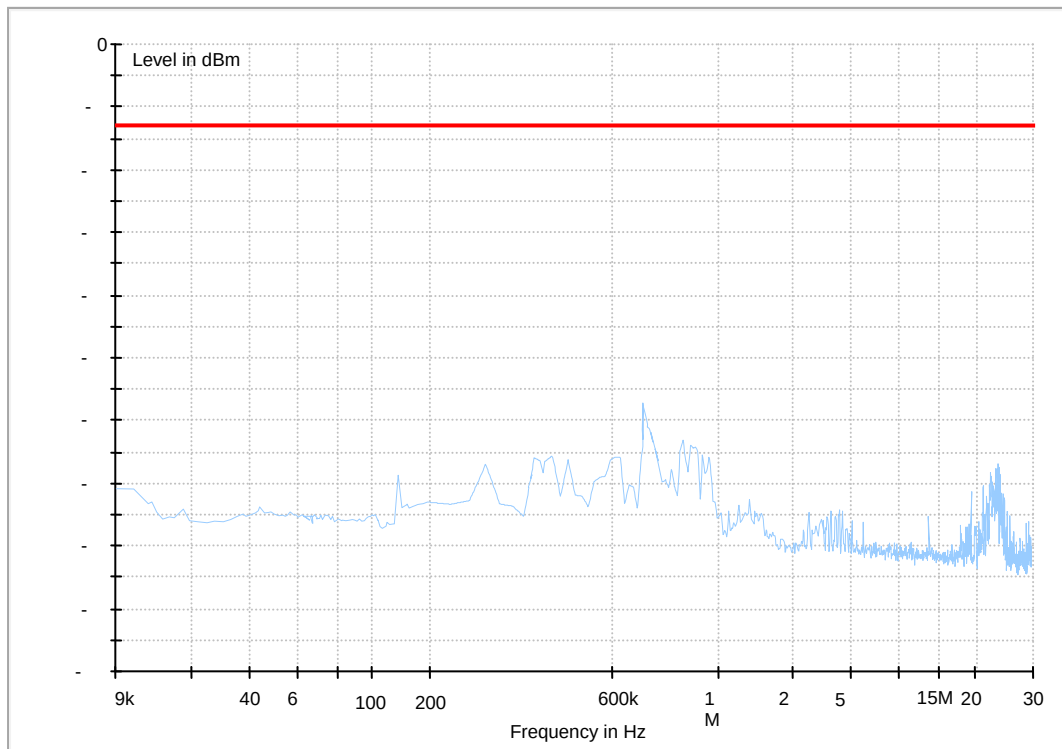


Appendix F

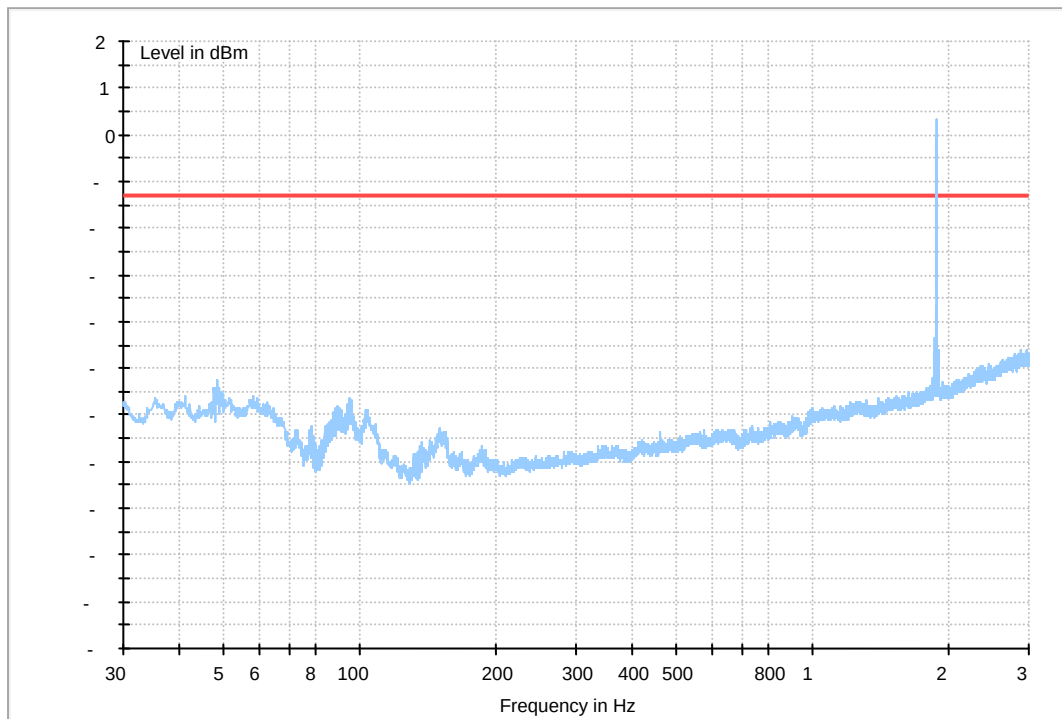
Radiated spurious emission

CDMA 1900

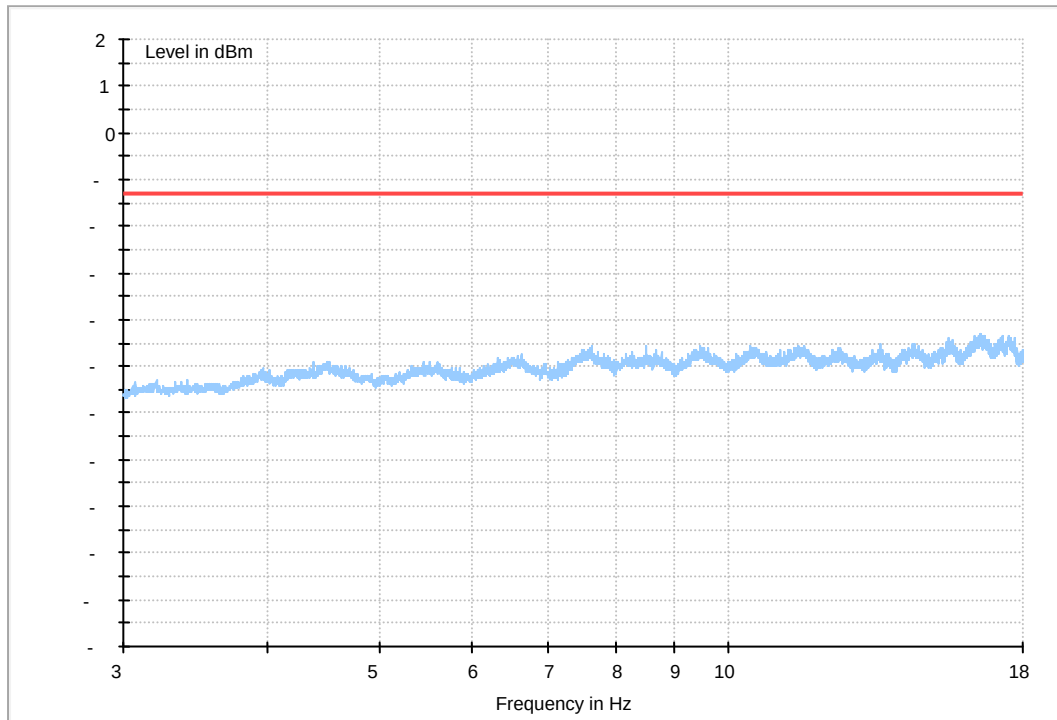
(9kHz-30MHz)



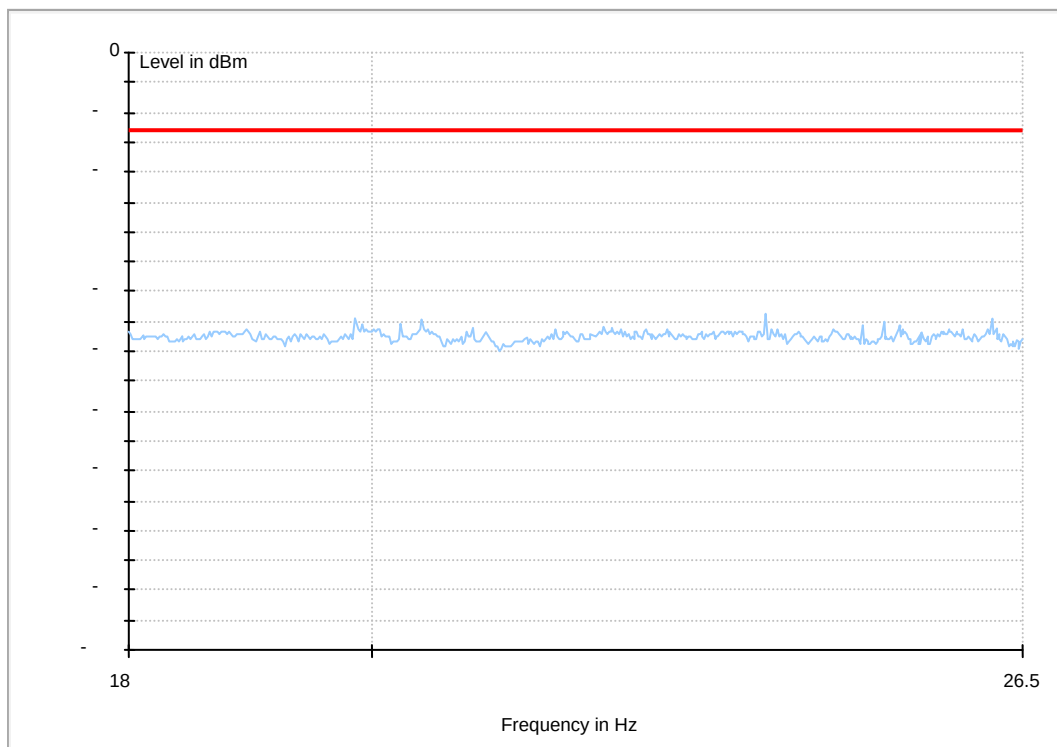
Traffic Mode (30MHz-3GHz)



Traffic Mode (3GHz-18GHz)

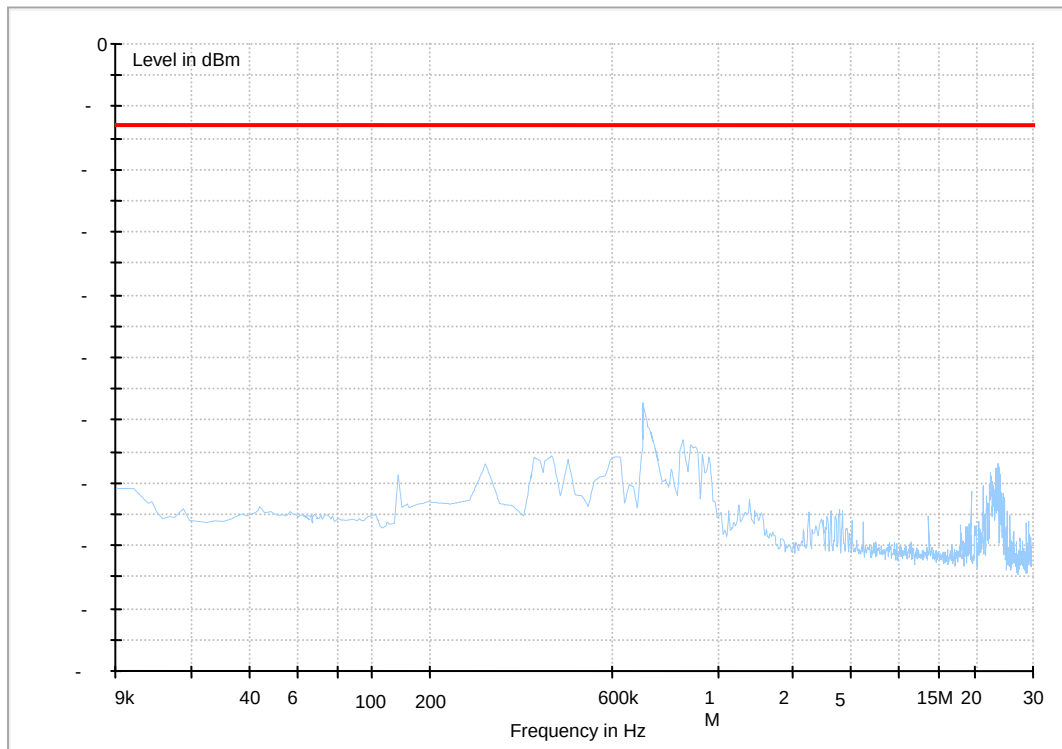


(18GHz-26.5GHz)

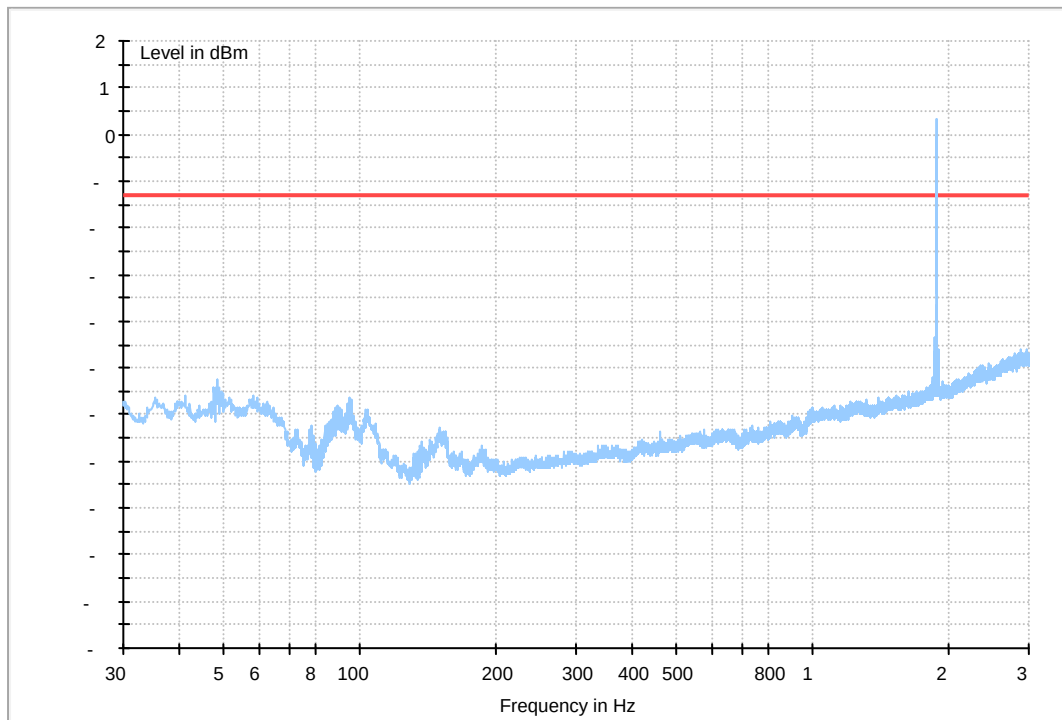


EVDO 1900 R.0

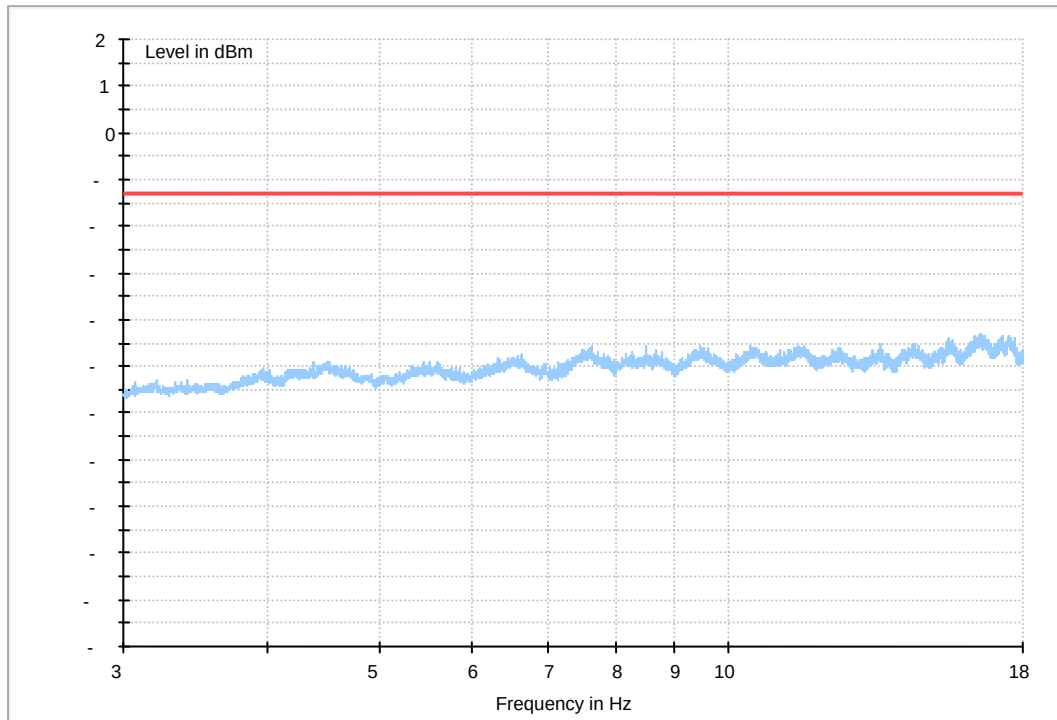
(9kHz-30MHz)



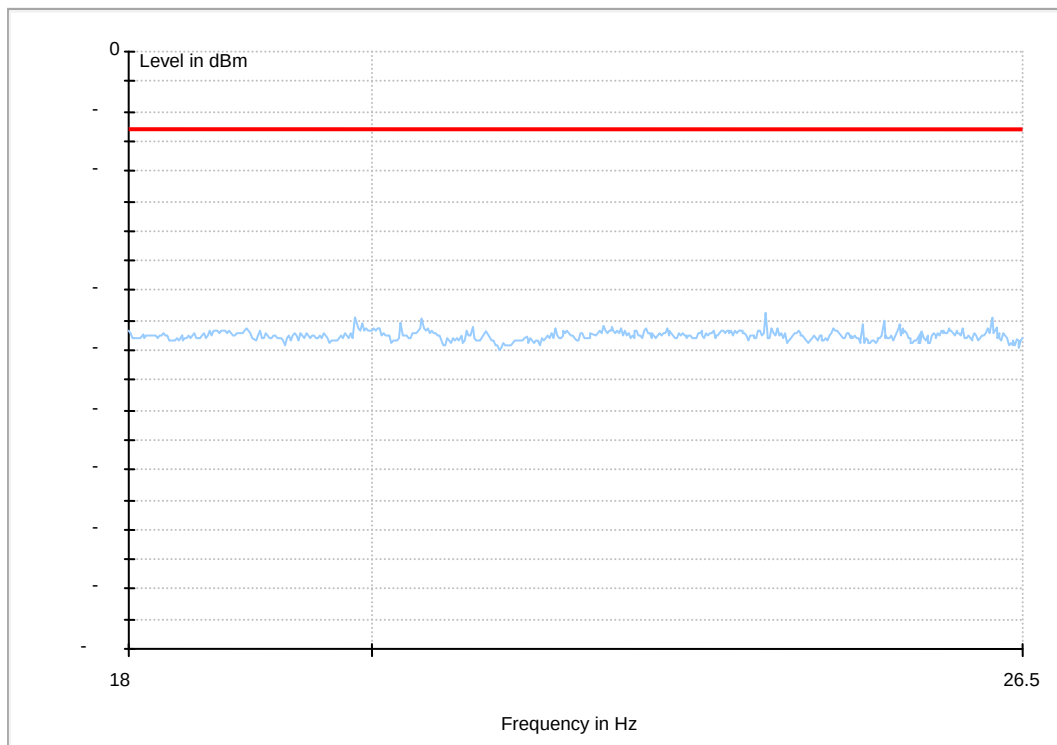
Traffic Mode (30MHz-3GHz)



Traffic Mode (3GHz-18GHz)

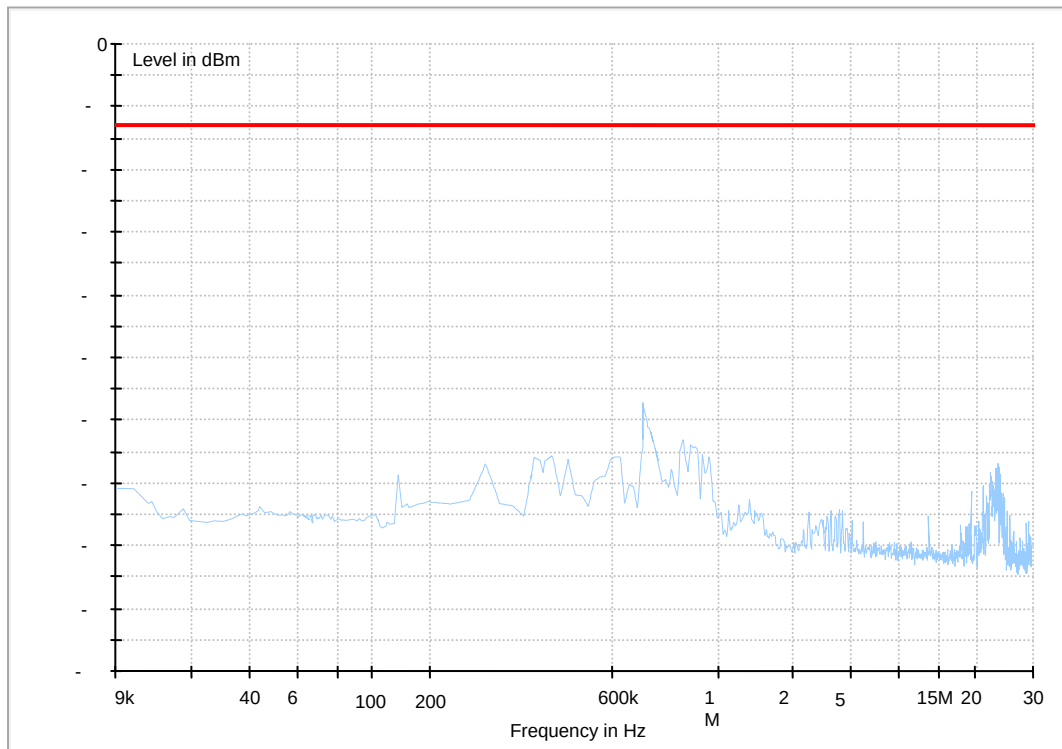


(18GHz-26.5GHz)

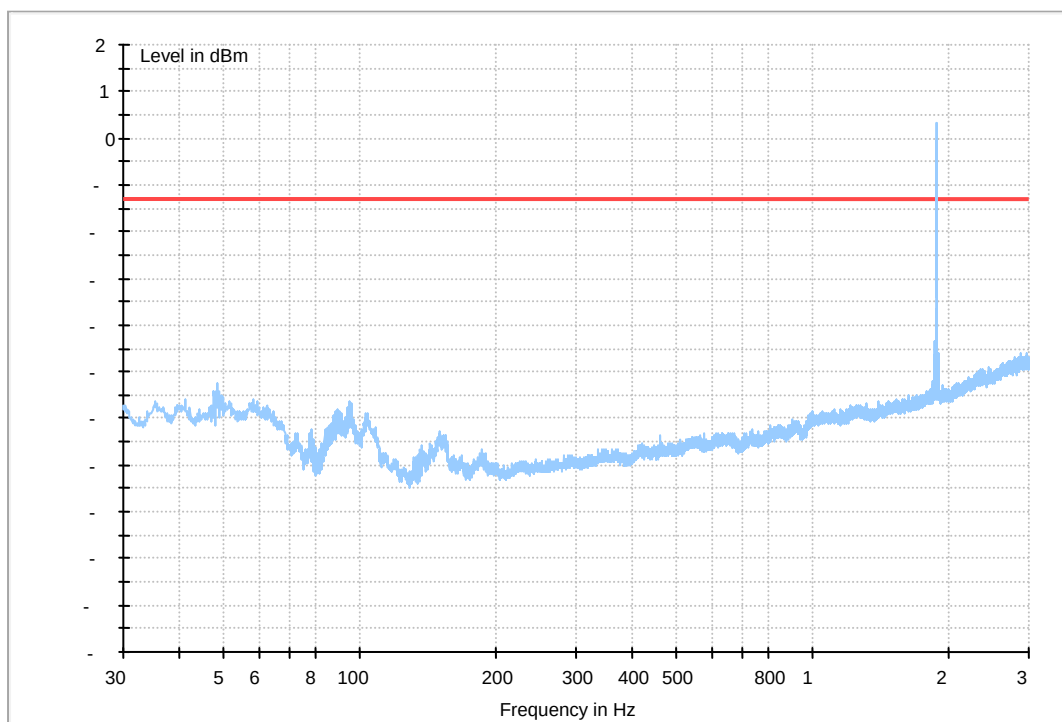


EVDO 1900 R.A

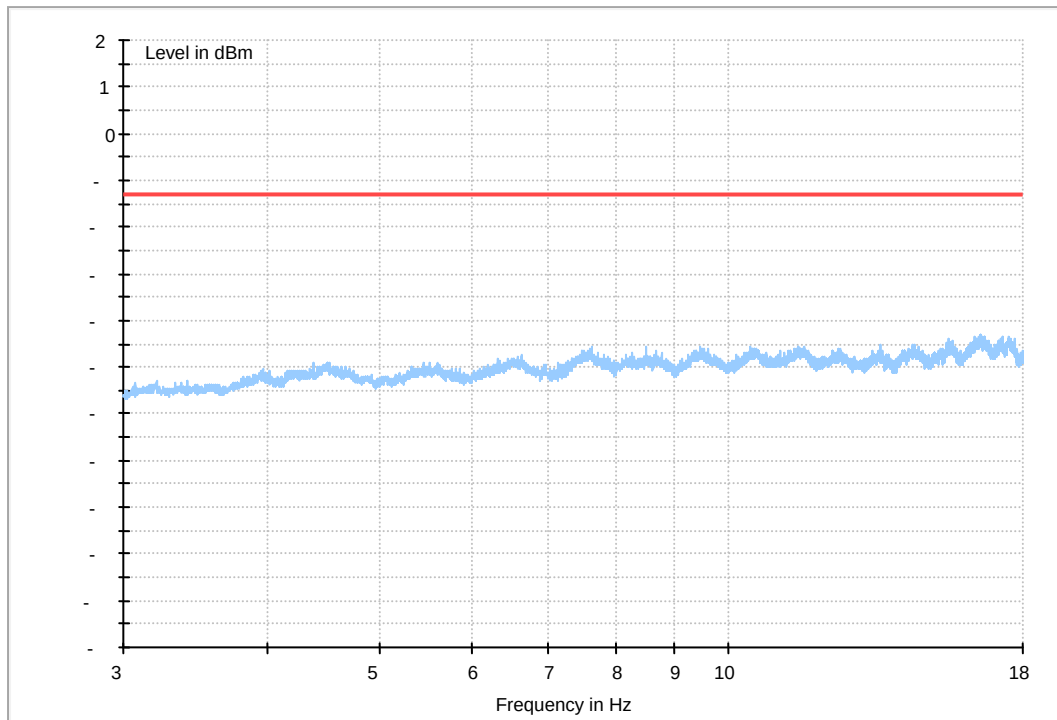
(9kHz-30MHz)



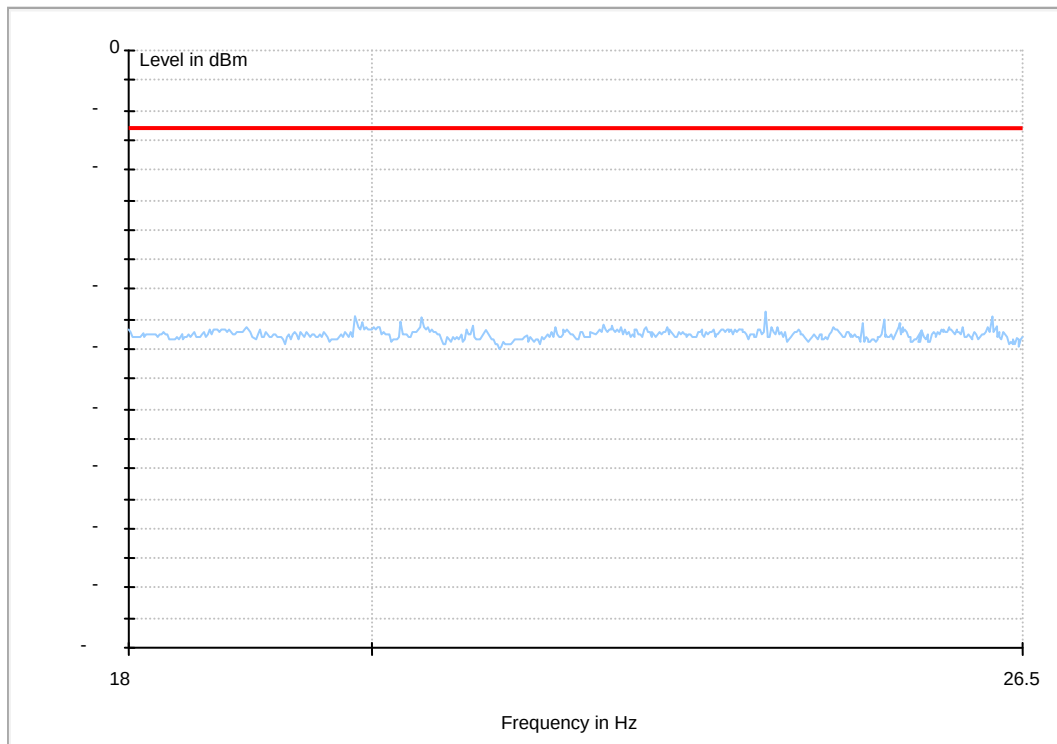
Traffic Mode (30MHz-3GHz)



Traffic Mode (3GHz-18GHz)



(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	12	0.0064	---	±2.5	Pass
			-20 °C	-10	-0.0053	---	±2.5	Pass
			-10 °C	-9	-0.0048	---	±2.5	Pass
			0 °C	7	0.0037	---	±2.5	Pass
			10 °C	-18	-0.0096	---	±2.5	Pass
			20 °C	-16	-0.0085	---	±2.5	Pass
			30 °C	19	0.0101	---	±2.5	Pass
			40 °C	-18	-0.0096	---	±2.5	Pass
			50 °C	-12	-0.0064	---	±2.5	Pass
TM 3	M	100%	-30 °C	11	0.0059	---	±2.5	Pass
			-20 °C	14	0.0074	---	±2.5	Pass
			-10 °C	-10	-0.0053	---	±2.5	Pass
			0 °C	-16	-0.0085	---	±2.5	Pass
			10 °C	18	0.0096	---	±2.5	Pass
			20 °C	-10	-0.0053	---	±2.5	Pass
			30 °C	9	0.0048	---	±2.5	Pass
			40 °C	-15	-0.0080	---	±2.5	Pass
			50 °C	-14	-0.0074	---	±2.5	Pass
Subtype 0	M	100%	-30 °C	8	0.0043	---	±2.5	Pass
			-20 °C	-10	-0.0053	---	±2.5	Pass
			-10 °C	-14	-0.0074	---	±2.5	Pass
			0 °C	15	0.0080	---	±2.5	Pass
			10 °C	16	0.0085	---	±2.5	Pass
			20 °C	-16	-0.0085	---	±2.5	Pass
			30 °C	-11	-0.0059	---	±2.5	Pass
			40 °C	7	0.0037	---	±2.5	Pass
			50 °C	-6	-0.0032	---	±2.5	Pass
Subtype 2	M	100%	-30 °C	8	0.0043	---	±2.5	Pass
			-20 °C	10	0.0053	---	±2.5	Pass
			-10 °C	-15	-0.0080	---	±2.5	Pass
			0 °C	-12	-0.0064	---	±2.5	Pass
			10 °C	14	0.0074	---	±2.5	Pass
			20 °C	18	0.0096	---	±2.5	Pass
			30 °C	-17	-0.0090	---	±2.5	Pass
			40 °C	-7	-0.0037	---	±2.5	Pass
			50 °C	13	0.0069	---	±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	VL	20	0.0106	---	±2.5	Pass
			VN	-17	-0.0090	---	±2.5	Pass
			VH	9	0.0048	---	±2.5	Pass
TM 3	M	20 °C	VL	-14	-0.0074	---	±2.5	Pass
			VN	-11	-0.0059	---	±2.5	Pass
			VH	10	0.0053	---	±2.5	Pass
Subtype 0	M	20 °C	VL	-11	-0.0059	---	±2.5	Pass
			VN	12	0.0064	---	±2.5	Pass
			VH	-14	-0.0074	---	±2.5	Pass
Subtype 2	M	20 °C	VL	15	0.0080	---	±2.5	Pass
			VN	-18	-0.0096	---	±2.5	Pass
			VH	-15	-0.0080	---	±2.5	Pass

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