FCC
RF Test Report

Product Name: T-Mobile myTouch Q;
HSPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth;
Ascend G312 Qwerty;

Model Number: HUAWEI U8730, U8730

Report No: SYBH(Z-RF)001042012-2001
FCC ID:QISU8730

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".
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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:	Mar.20, 2012
Start Date of Test:	Mar.20, 2012
End Date of Test:	Mar.31, 2012
Test Result:	Pass

	Date	Name	Signature
Approved By Senior Engineer	Apr,01, 2012	Dai Linjun	
Reviewed By	Apr,01, 2012	Cousy Xu	
Operator	Apr,01, 2012	Huang Qiuliang	

Contents

1 General Information

1.1 Applied Standard

Applied Rules:	47 CFR FCC Part 2:2010, Subpart J 47 CFR FCC Part 22:2010, Subpart H ANSI/TIA 603C：2004

1.2 Test Location

Test Location 1: Address:	Reliability Laboratory of Huawei Technologies Co., Ltd. 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

Cellular Band			
Test Case	FCC Part No.	Requirements	Result
Transmitter Output Power	2.1046 & 22.913	ERP not exceed 7 W	Pass
Modulation Characteristics	2.1047	Digital modulation	Pass
Occupied Bandwidth	2.1049	(Not specified)	Pass
Band Edges Compliance	2.1051 & 22.917	Below -13 dBm/1%*EBW, in 1 MHz range	Pass
Spurious Emission at Antenna Terminals	2.1051 & 22.917	Below -13 dBm/1 kHz, 9 kHz to 150 kHz Below -13 dBm/10 kHz, 150 kHz to 30 MHz Below -13 dBm/100 kHz, 30 MHz to 10th harmonics	Pass
Field Strength of Spurious Radiation	2.1053 & 22.917	Below -13 dBm/100 kHz	Pass
Frequency Stability	2.1055 & 22.355	Maintained within the tolerances of ±2.5ppm	Pass

3 Product Description

3.1 Production Information

3.1.1 General Description

HUAWEI U8730, U8730 is subscriber equipment in the WCDMA/GSM system. The HSPA/UMTS frequency band is Band I, Band II, Band IV, and Band V, but Band V test data is included in this report. The GSM/GPRS/EDGE frequency band includes GSM850 and GSM900 and DCS1800 and PCS1900, but only GSM850 bands test data is included in this report. The Mobile Phone implements such functions as RF signal receiving/transmitting, HSPA/UMTS and GSM/GPRS/EDGE protocol processing, voice, video MMS service, GPS, 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.

3.1.2 Board

Table 1 Board Information

T-Mobile myTouch Q;HSPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth; Ascend G312 Qwerty;		
HUAWEI U8730, U8730		
Hardware Version	Software Version	Serial Number
HD1U873M	U8730 V100R001C85B820	E7F01A11A1500286

3.1.3 Sub-Assembly

AC/DCAdapter Model	HW-050100U2W
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: HB5N1H Rated capacity: 1500mAh Nominal Voltage: ⎓ +3.7V Charging Voltage: ⎓ +4.2V

3.2 Test Description

3.2.1 Supported Frequency Range

Characteristics	Description
Downlink	869 to 894 MHz;
Uplink	824 to 849 MHz

3.2.2 Transmitter / Receiver Characteristics

Characteristics	Description
System Type	GSM UMTS
TX Output Power (per Antenna Port)	GSM system: 33dBm UMTS system: 24dBm
Channel Spacing(s) / Bandwidth(s)	GSM system: 200 kHz UMTS system: 5 MHz
Designation of Emissions	GSM system: 248KGXW (GMSK modulation), 261KG7W (8PSK modulation)) UMTS system: 4M13F9W

3.2.3 Antenna Gain

Antenna Gain(dBi):	-0.85
Antenna Gain(dBd):	-3

3.2.4 Power Supply

	Description
Power Supply Type	Directly Connected to DC /AC Power Supply
Input to Adapter (DC power)	DC Voltage Nominal: ⎓ +3.7V DC Voltage Range: ⎓ +3.6 V to +4.2V

4 General Test Conditions / Configurations

4.1 RF Channels under Test

Test Mode	TX / RX	RF Channel		
		Bottom (B)	Middle (M)	Top (T)
TM1/TM2	TX	Channel 128	Channel 192	Channel 251
		824.2MHz	837.0MHz	848.8MHz
	RX	Channel 128	Channel 192	Channel 251
		869.2MHz	882.0MHz	893.8MHz
TM3/TM4/TM5	TX	Channel 4132	Channel 4182	Channel 4233
		826.4MHz	836.4MHz	846.6MHz
	RX	Channel 4357	Channel 4407	Channel 4458
		871.4MHz	881.4MHz	891.6MHz

4.2 Test Modes

Test Mode	Test Modes Description
TM1	GSM/GPRS, GMSK modulation
TM2	EDGE, 8PSK modulation
TM3	WCDMA QPSK modulation
TM4	HSDPA QPSK modulation
TM5	HSUPA QPSK modulation

4.3 Test Environments

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

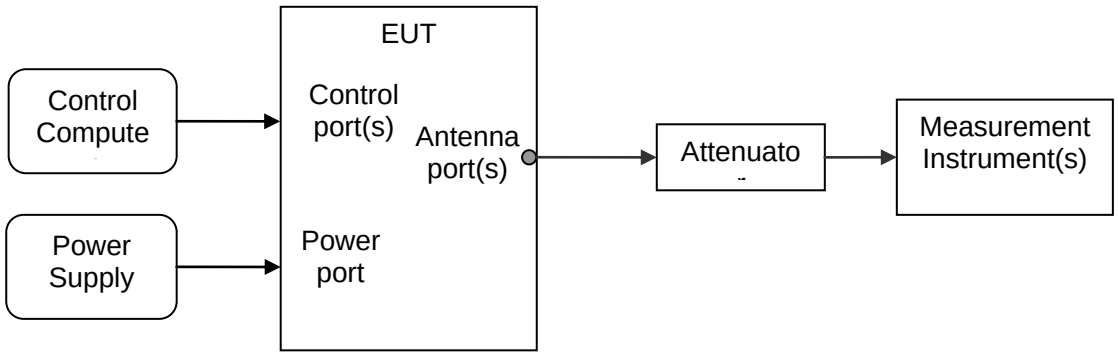
NOTE: VL= lower extreme test voltages
VN= nominal voltage
VH= upper extreme test voltage
TN= nominal temperature

4.4 Test Setups

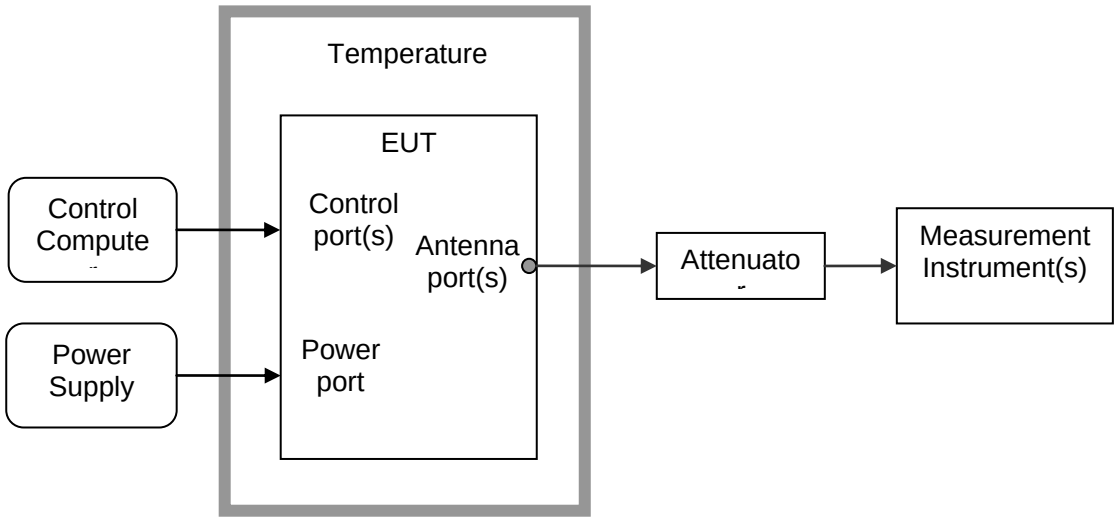
4.4.1 General Test Setup Configurations

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.

4.4.2 Test Setup 1



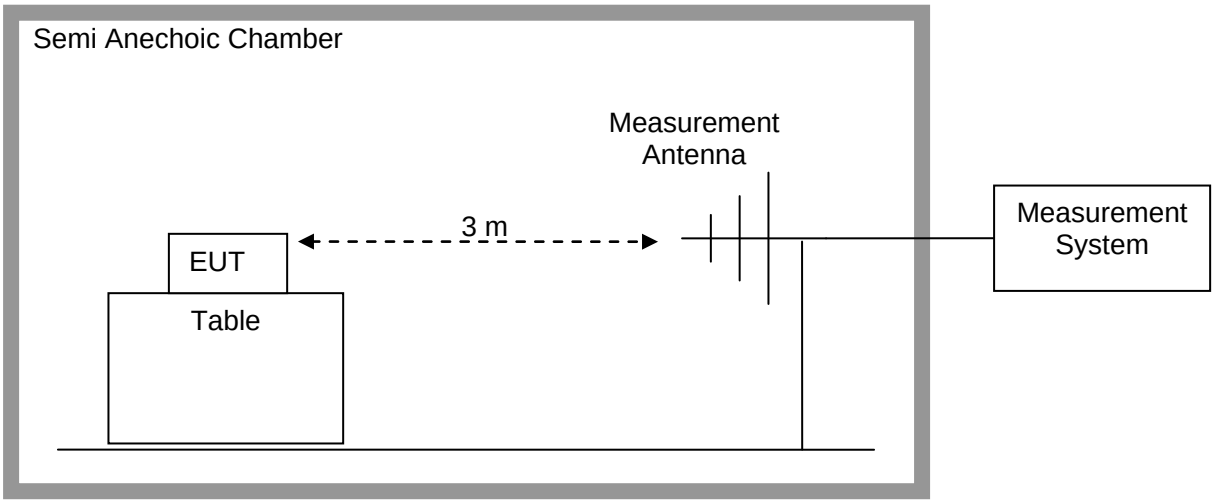
4.4.3 Test Setup 2



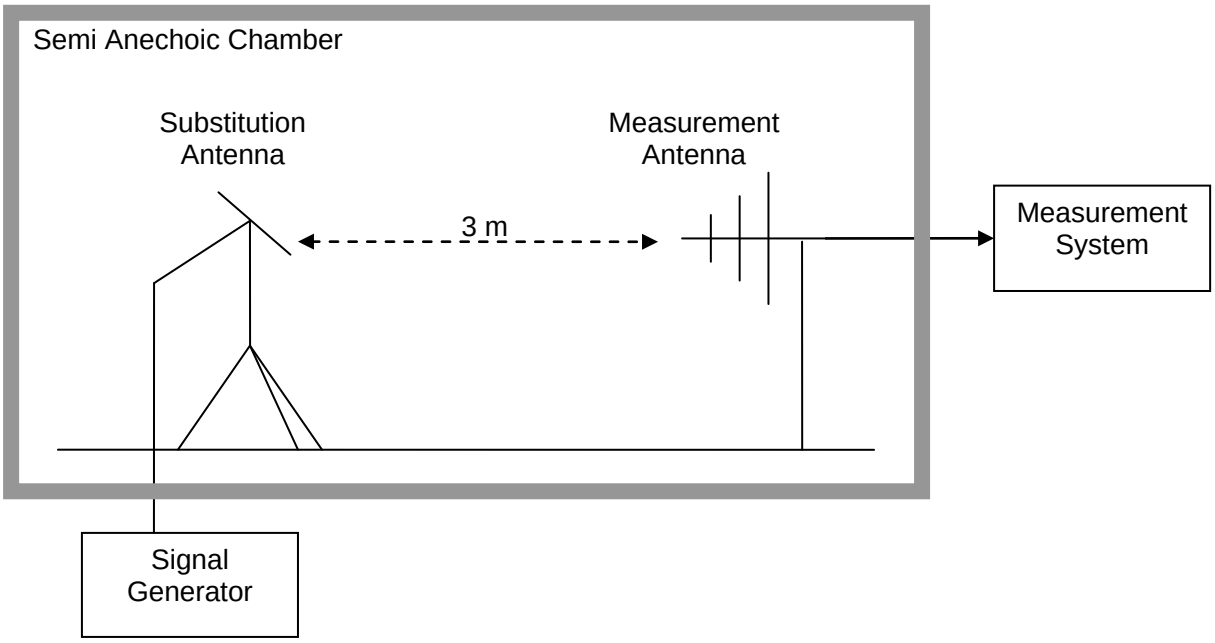
4.4.4 Test Setup 3

NOTE: Effective radiated power (ERP) 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 ERP



4.5 Test Conditions

Test Case	Test Conditions	
Transmitter Output Power	Test Configuration	Ambient Temperature & Rated Voltage
	Test Setup	Test Setup 1 & Setup 3
	Detector	RMS
	RF Channels (TX)	B, M, T
	Test Mode	TM1/TM2/TM3/TM4/TM5
Modulation Characteristics	Test Configuration	Ambient Temperature & Rated Voltage
	Test Setup	Test Setup 1
	RF Channels (TX)	M
	Test Mode	TM1/TM2/TM3
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/TM3
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/TM3
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/TM3
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/TM3/TM4/TM5
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/TM3

5 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	Apr.20,2012
Signal Analyzer	R&S	FSQ31	200021	Sep.27,2012
Temperature Chamber	WEISS	WKL64	24600294	Feb.13,2013
Signal generator	Agilent	E8257D	MY49281095	Jul.9.2012
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

6 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 Field Strength of Spurious Radiation, no test data.

7 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

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Appendix A

Transmitter Output Power

According to FCC Part 2.1046 &Part22.913

Conducted Power of Transmitter

Table 1 Measurement Results

		RF Output Power (Conducted)					
TEST CONDITIONS		Channel128(B) 824.2MHz		Channel192(M) 837.0MHz		Channel251(T) 848.8MHz	
		dBm		dBm		dBm	
T_{nom} / V_{nom}		Measured	Limit	Measured	Limit	Measured	Limit
TM1		32.59	38.50	32.65	38.50	32.39	38.50
TM2		26.17	38.50	26.20	38.50	26.18	38.50
TEST CONDITIONS		Channel4132(B) 826.4MHz		Channel4182(M) 836.4MHz		Channel4233(T) 846.6MHz	
		dBm		dBm		dBm	
T_{nom} / V_{nom}		Measured	Limit	Measured	Limit	Measured	Limit
TM3		22.89	38.50	22.77	38.50	22.68	38.50
TM4	Case1	23.04	38.50	22.96	38.50	22.94	38.50
	Case2	22.83	38.50	22.72	38.50	22.82	38.50
	Case3	22.18	38.50	22.19	38.50	22.38	38.50
	Case4	22.19	38.50	22.21	38.50	22.32	38.50
TM5	Case1	22.55	38.50	22.6	38.50	21.86	38.50
	Case2	21.25	38.50	20.96	38.50	21.18	38.50
	Case3	21.48	38.50	21.88	38.50	21.61	38.50
	Case4	21.72	38.50	21.26	38.50	21.31	38.50
	Case5	22.17	38.50	22.4	38.50	21.81	38.50

Effective Radiated Power of Transmitter (ERP)

Table 2 Substitution Results

Test Mode	Freq. [MHz]	Meas. Level [dBm]	Substitution Antenna Type	SGP [dBm]	Substitution Gain [dBd]	Cable Loss [dB]	Substitution Level (ERP) [dBm]	FCC limit [dBm]	Result
TM1	824.2	31.74	Dipole Ant.	35.20	-2.75	0.6	31.85	38.5	Pass
TM1	837.0	31.80	Dipole Ant.	35.35	-2.87	0.6	31.88	38.5	Pass
TM1	848.8	31.54	Dipole Ant.	35.13	-2.85	0.6	31.68	38.5	Pass
TM2	824.2	25.32	Dipole Ant.	28.88	-2.75	0.6	25.53	38.5	Pass
TM2	837.0	25.35	Dipole Ant.	28.96	-2.87	0.6	25.49	38.5	Pass
TM2	848.8	25.33	Dipole Ant.	28.89	-2.85	0.6	25.44	38.5	Pass
TM3	826.4	22.04	Dipole Ant.	25.47	-2.75	0.6	22.12	38.5	Pass
TM3	836.4	21.92	Dipole Ant.	25.56	-2.87	0.6	22.09	38.5	Pass
TM3	846.6	21.83	Dipole Ant.	25.44	-2.85	0.6	21.99	38.5	Pass

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

ERP [dBm] = SGP [dBm] – Cable Loss [dB] + Gain [dBd]

b, SGP=Signal Generator Level

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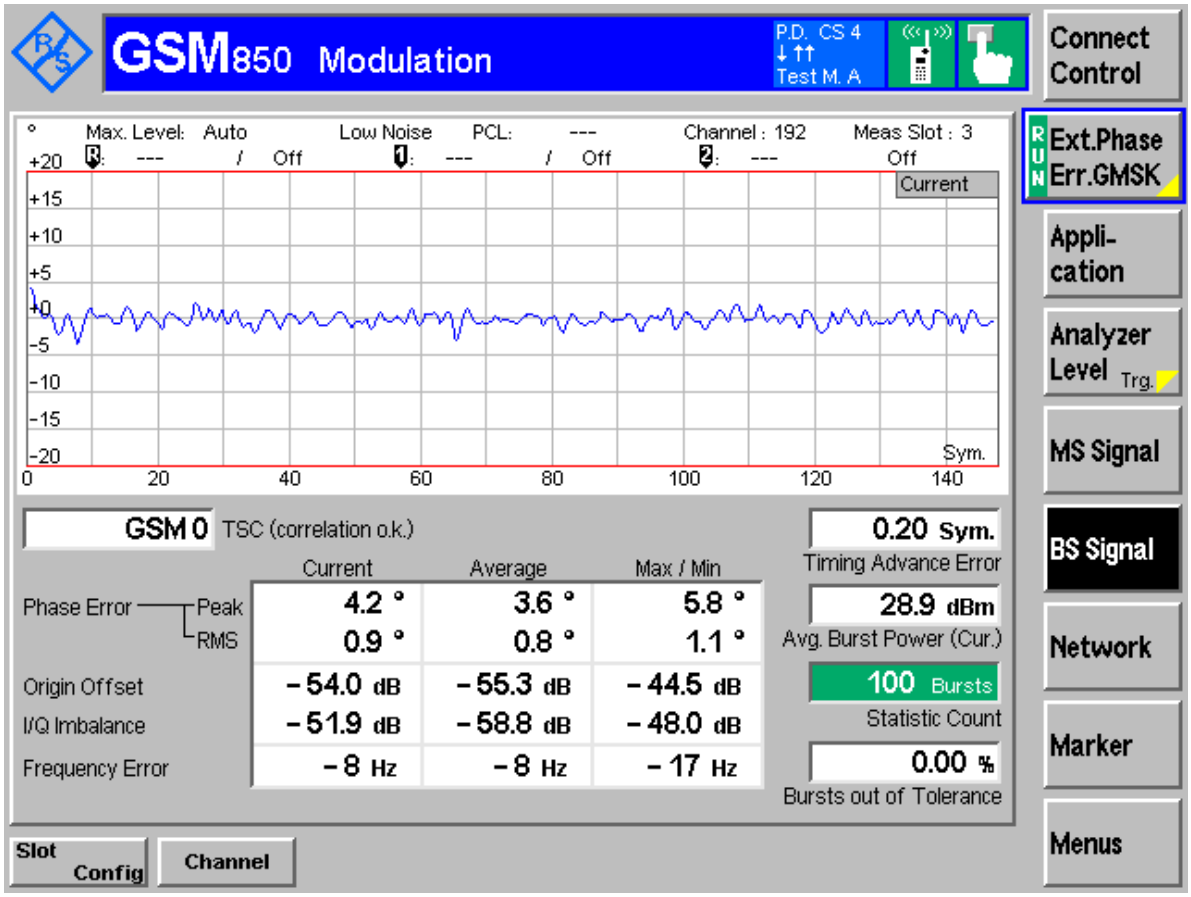
Appendix B

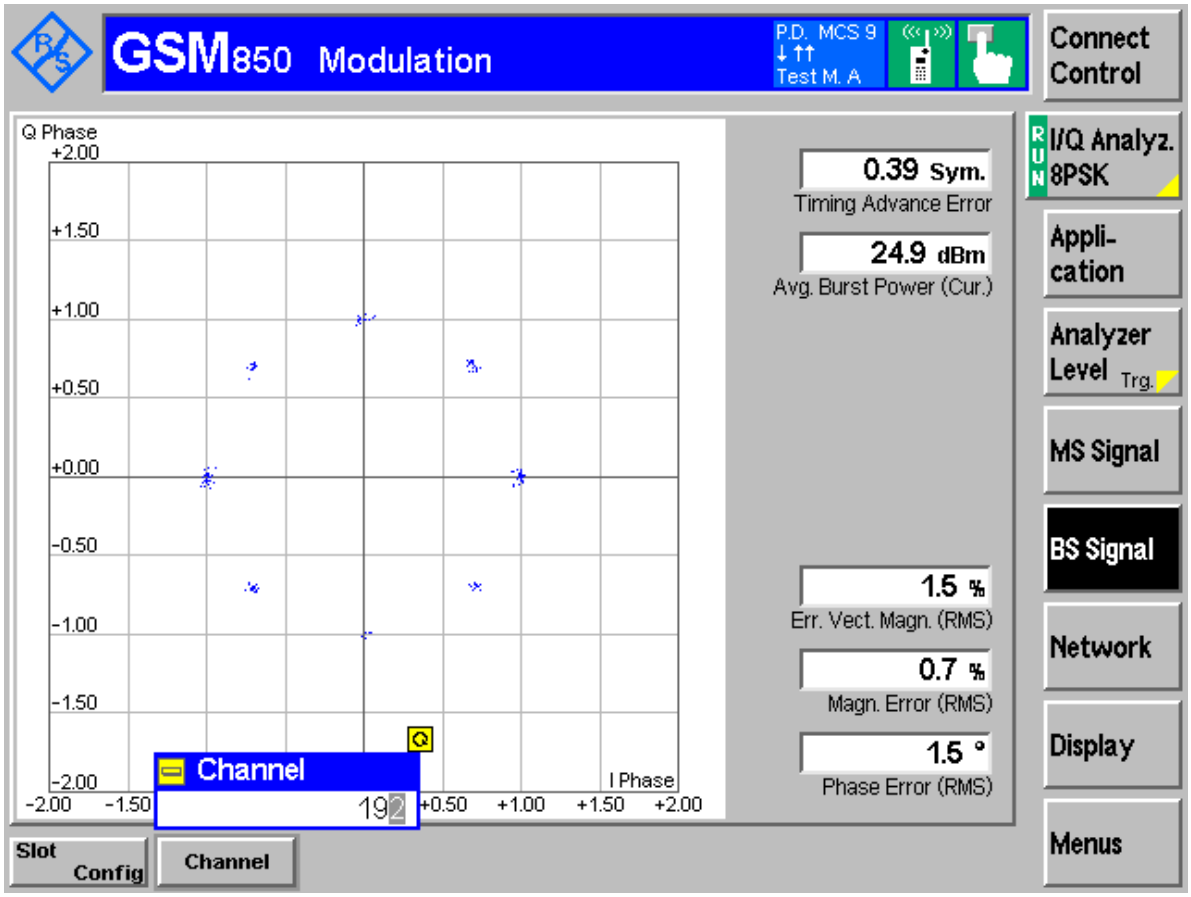
Modulation Characteristics

According to FCC Part 2.1047 & Part22 Subpart H

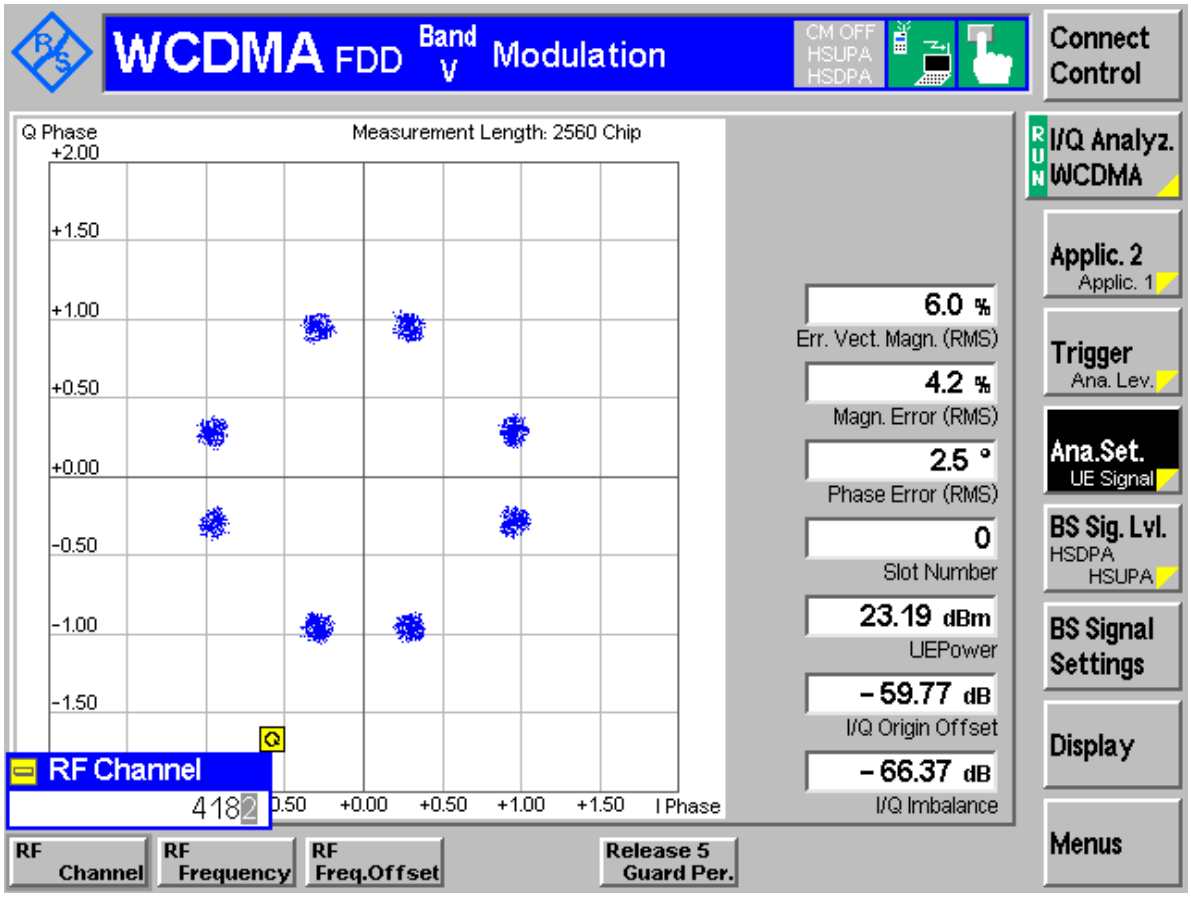
Channel 192（TM1:GPRS/GSM）



Channel 192（TM2:EDGE）



Channel 4182（TM3: WCDMA）



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Appendix C

Occupied Bandwidth

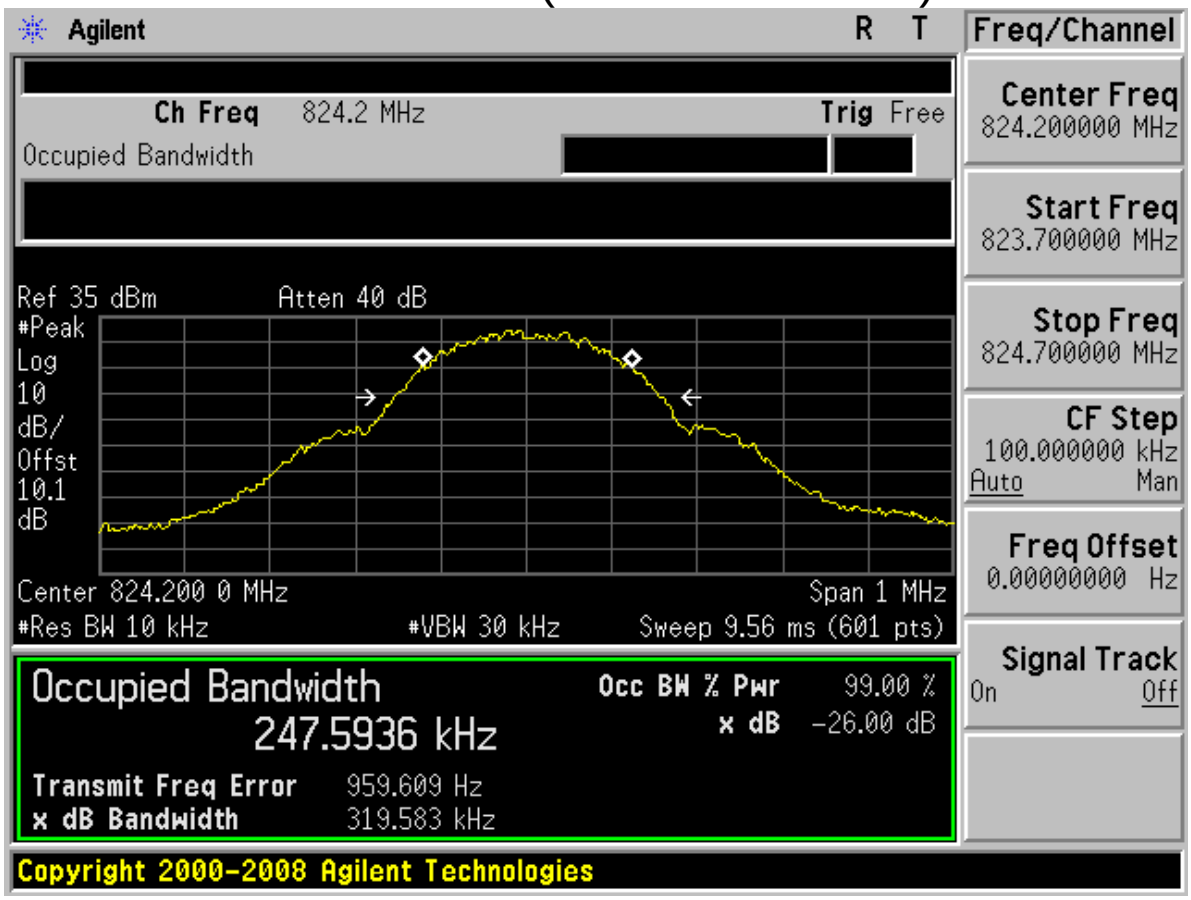
According to FCC Part 2.1049 & Part 22 Subpart H

Result Table

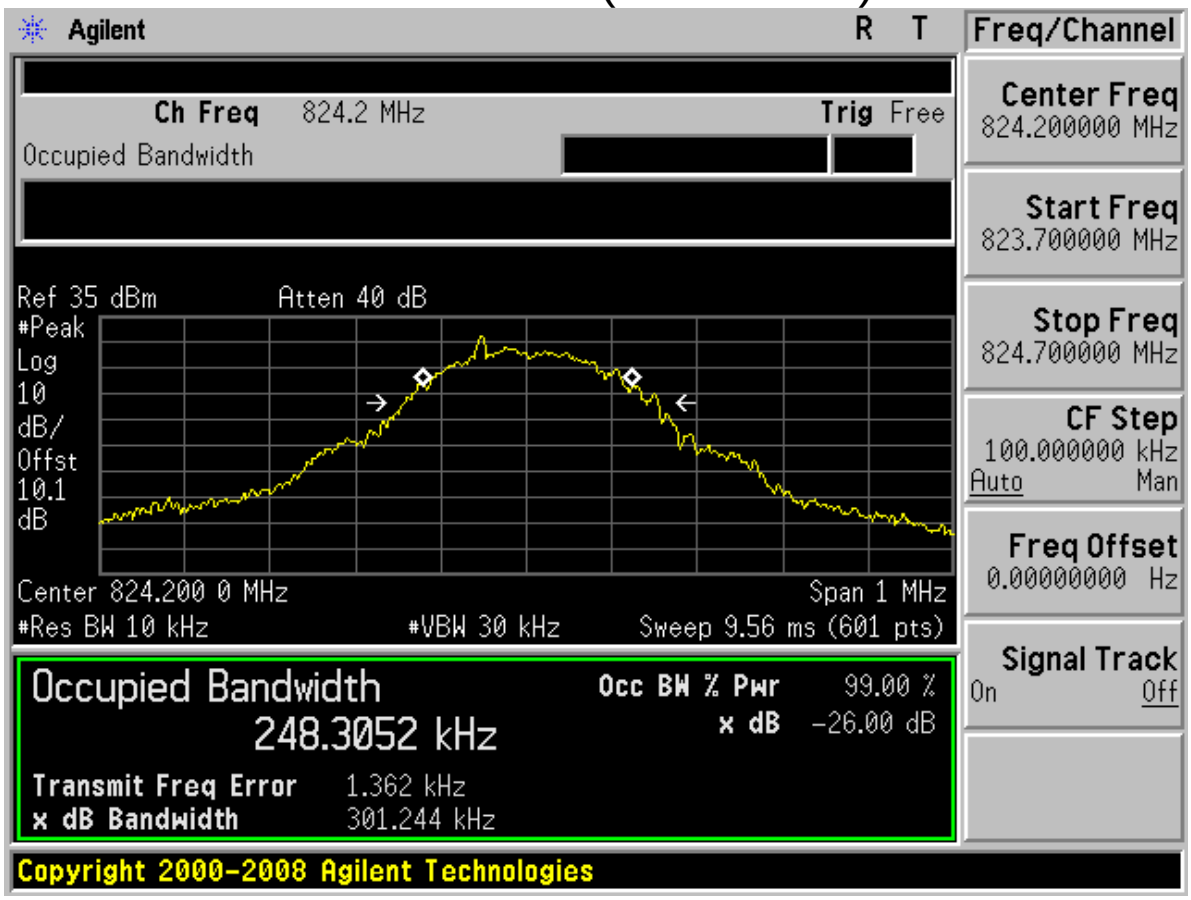
Table 1 Measurement Results

Test Mode	RF Channel	Occupied Bandwidth [kHz]	Verdict
TM1	128	247.6	Pass
	192	243.2	Pass
	251	244.3	Pass
TM2	128	248.4	Pass
	192	260.7	Pass
	251	236.4	Pass
Test Mode	RF Channel	Occupied Bandwidth [MHz]	Verdict
TM3	4132	4.125	Pass
	4182	4.090	Pass
	4233	4.124	Pass

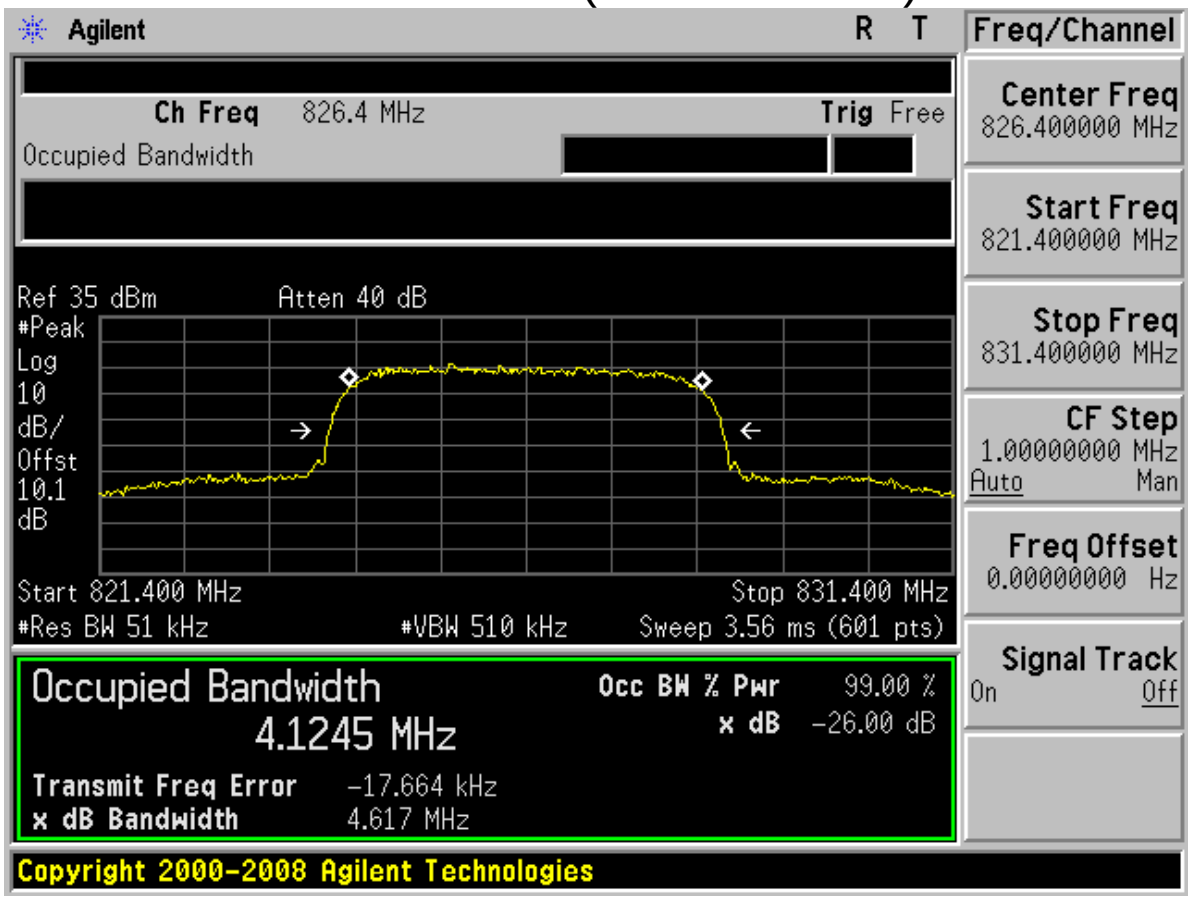
Channel 128 (TM1:GPRS/GSM)



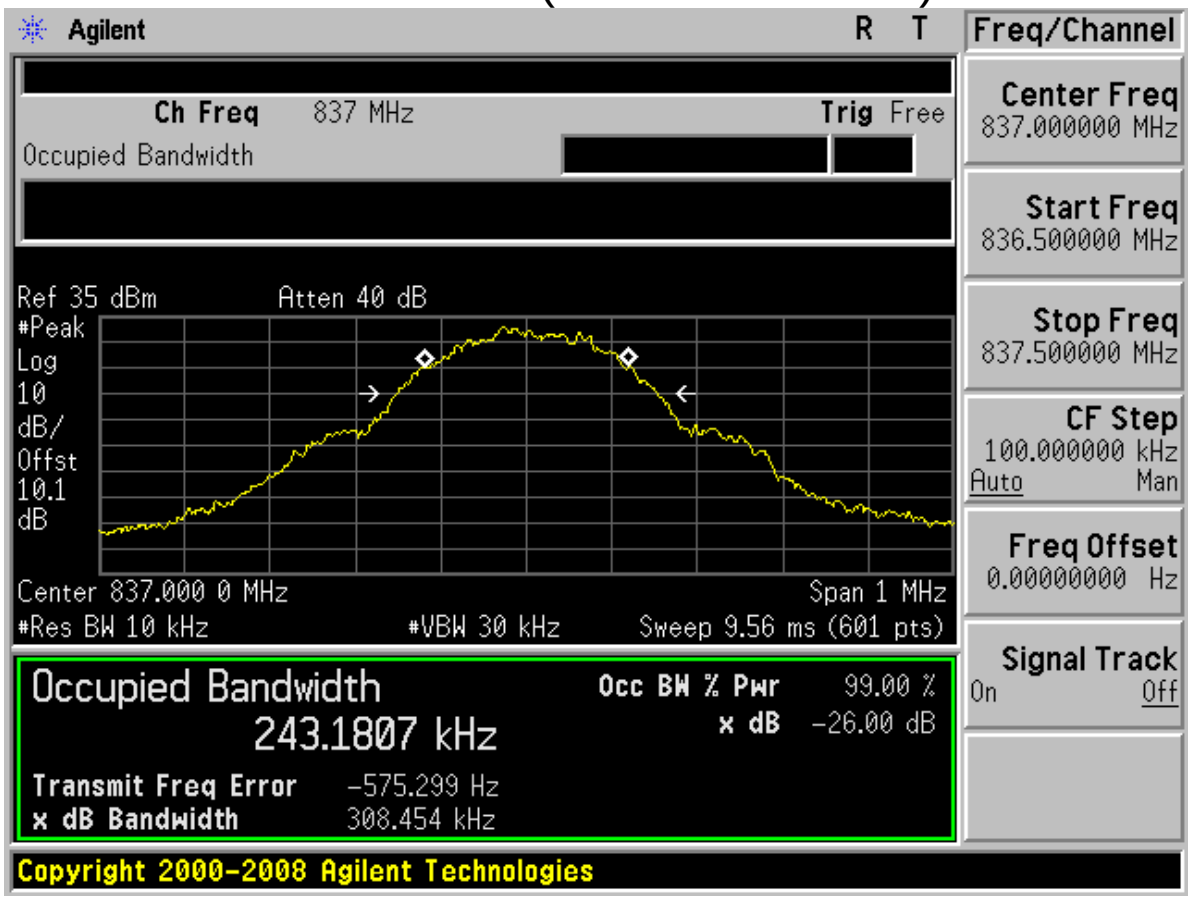
Channel 128 (TM2:EDGE)



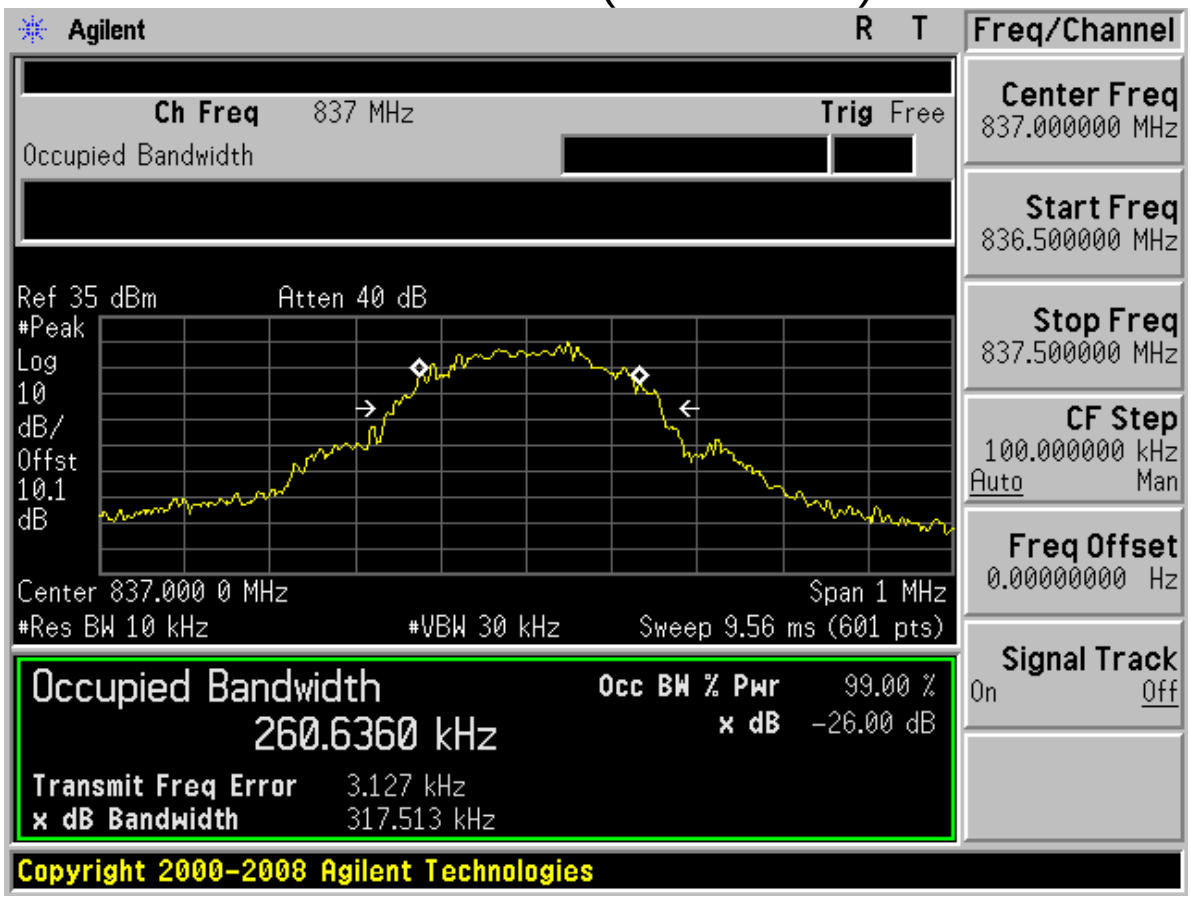
Channel 4132 (TM3: WCDMA)



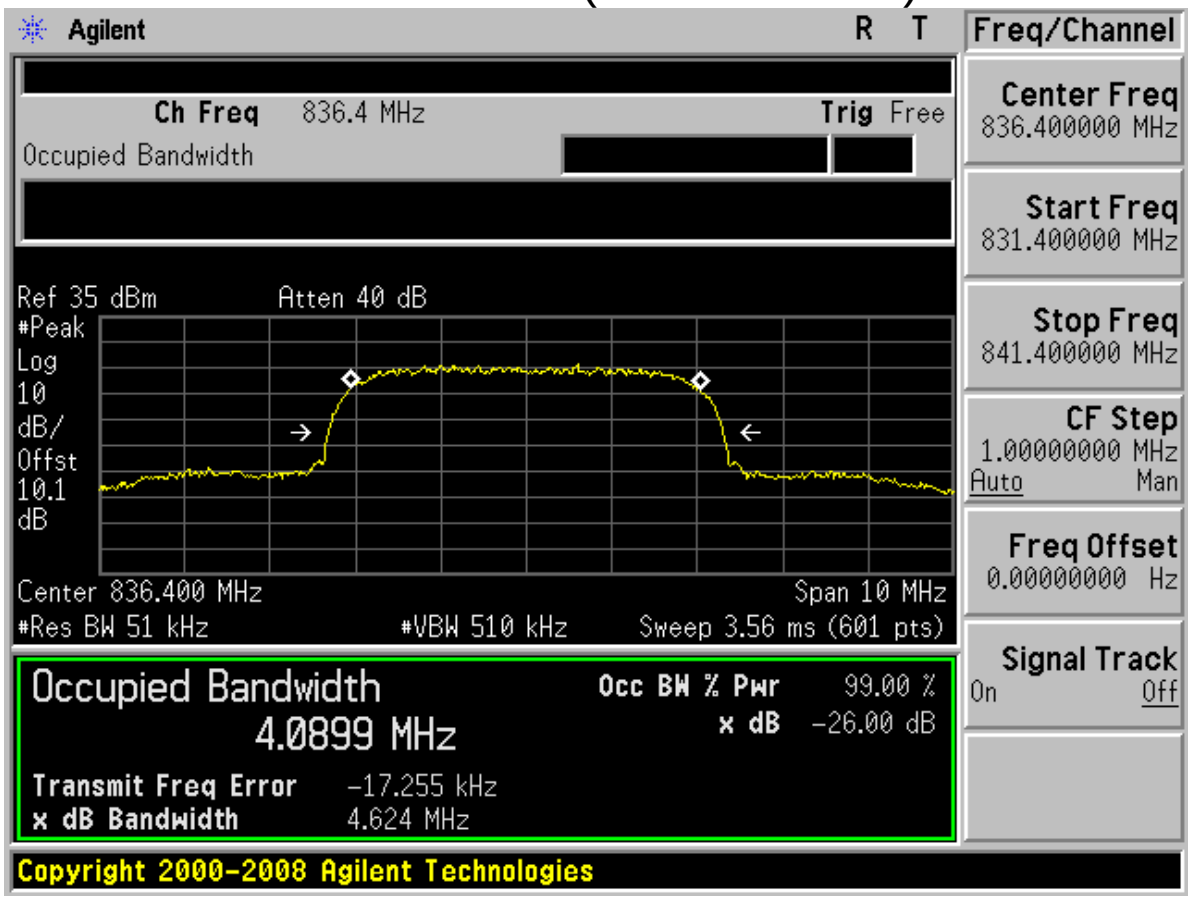
Channel 192 (TM1:GPRS/GSM)



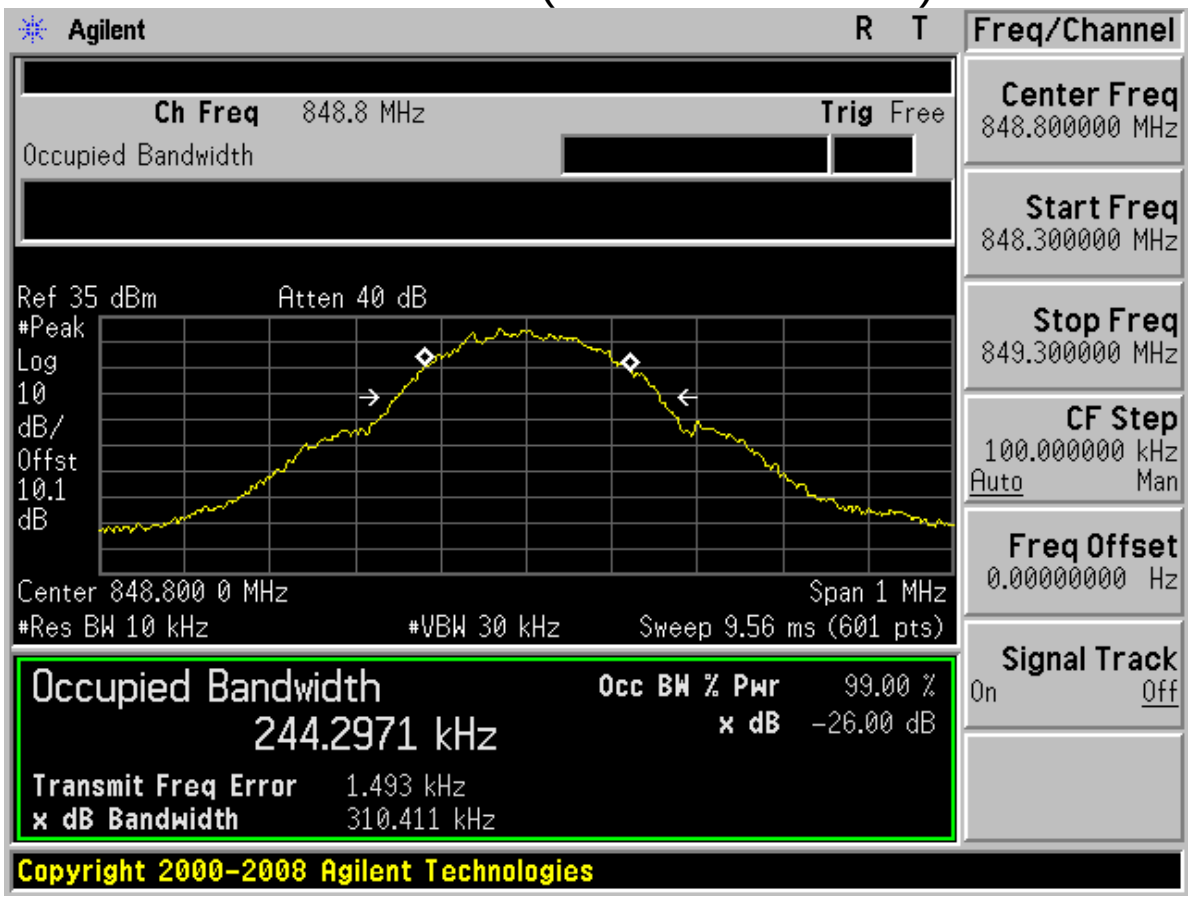
Channel 192 (TM2:EDGE)



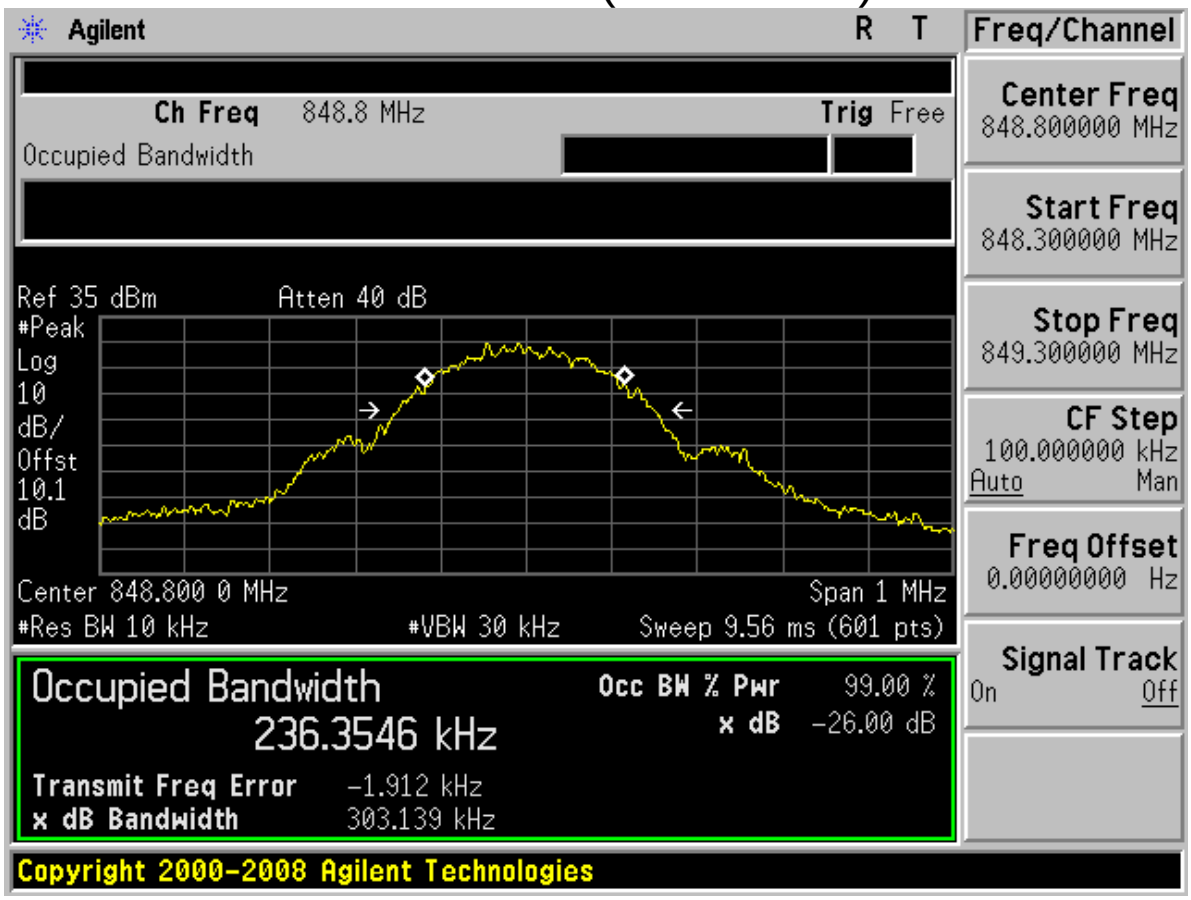
Channel 4182 (TM3: WCDMA)



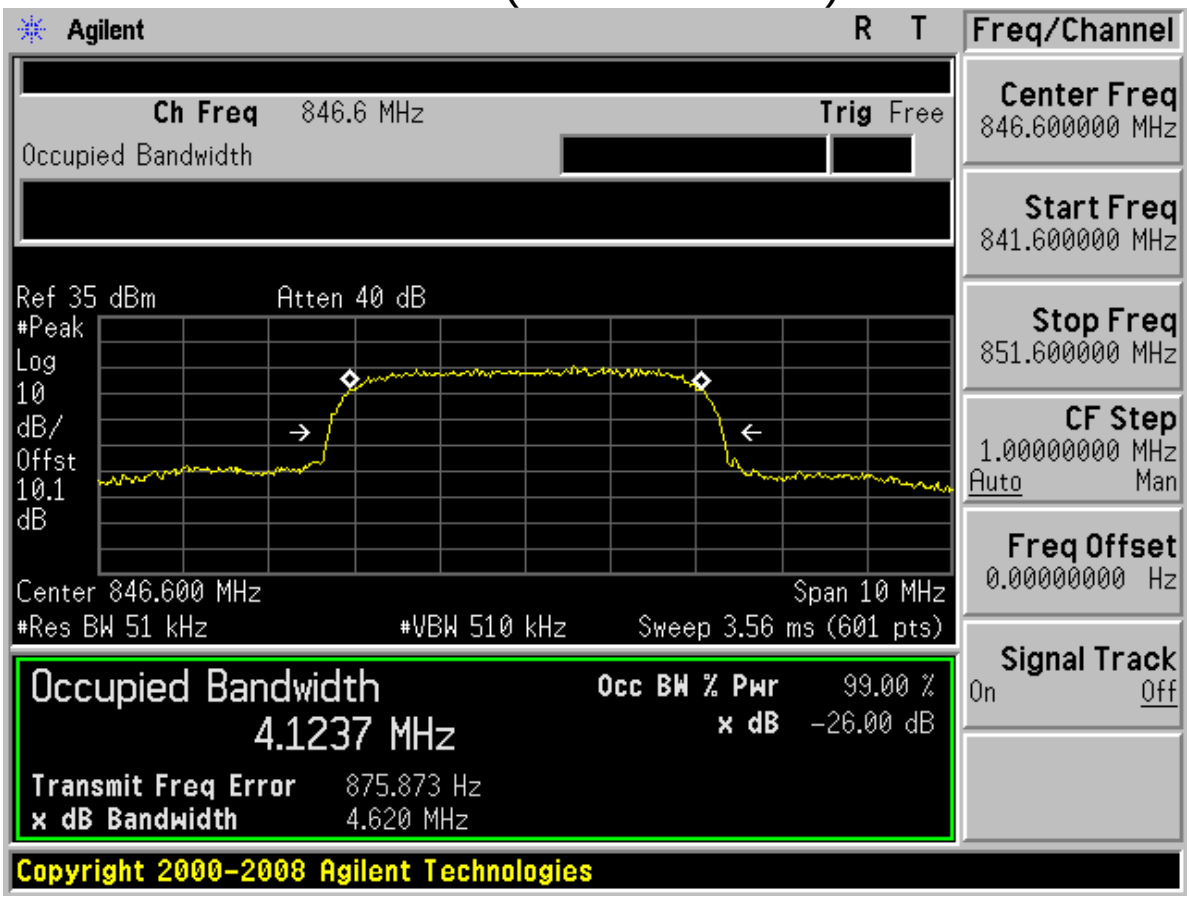
Channel 251 (TM1:GPRS/GSM)



Channel 251 (TM2:EDGE)



Channel 4233 (TM3: WCDMA)



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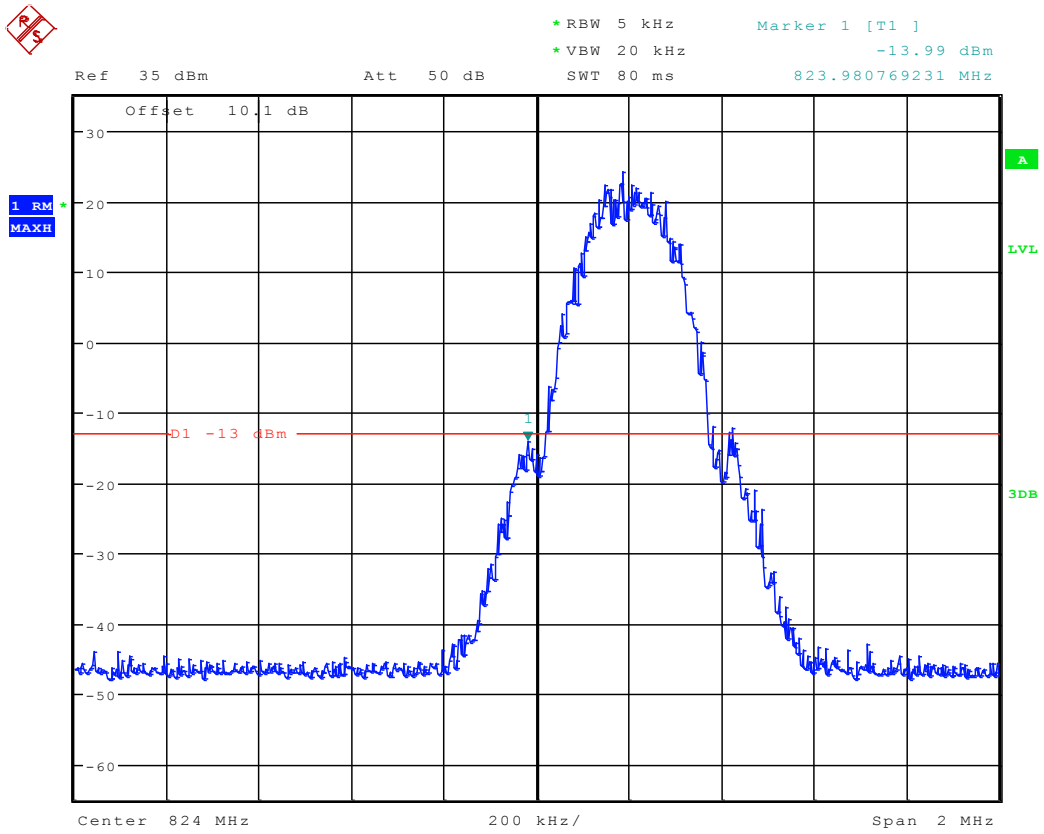
Appendix D

Band Edges Compliance

According to FCC Part 2.1051 & Part 22 Subpart H

TM1:GPRS/GSM

Left Edge
Channel 128



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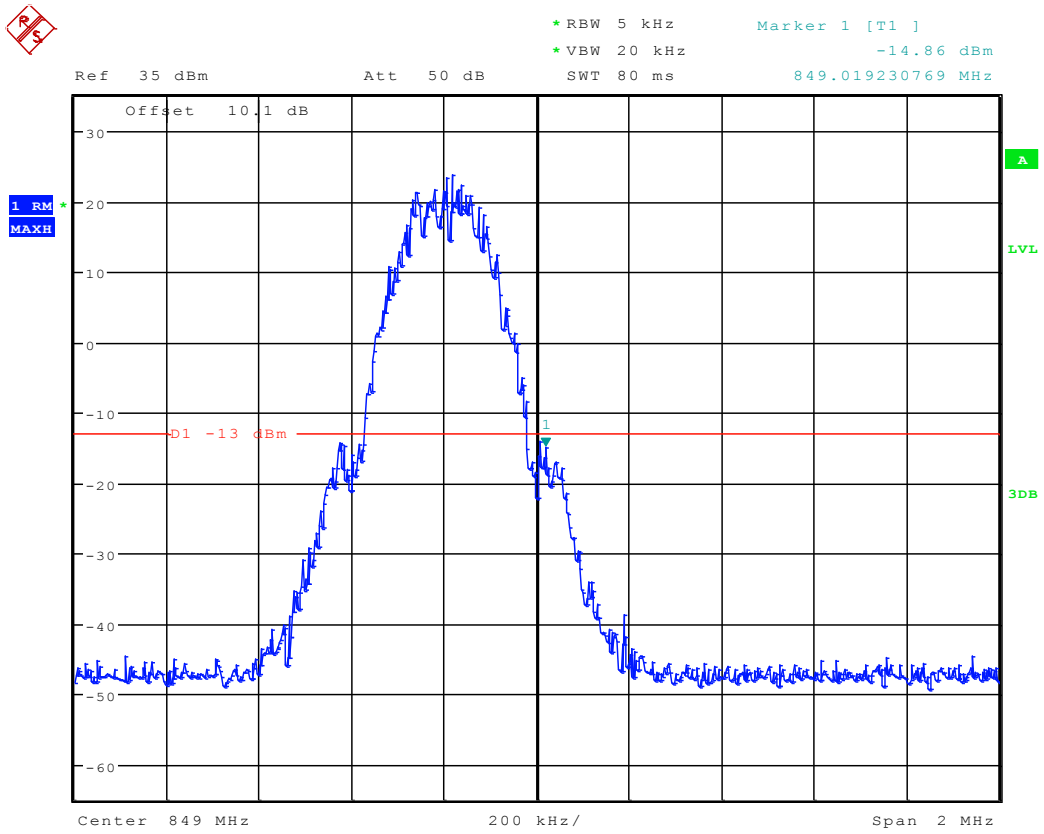
Right Edge
Channel 251



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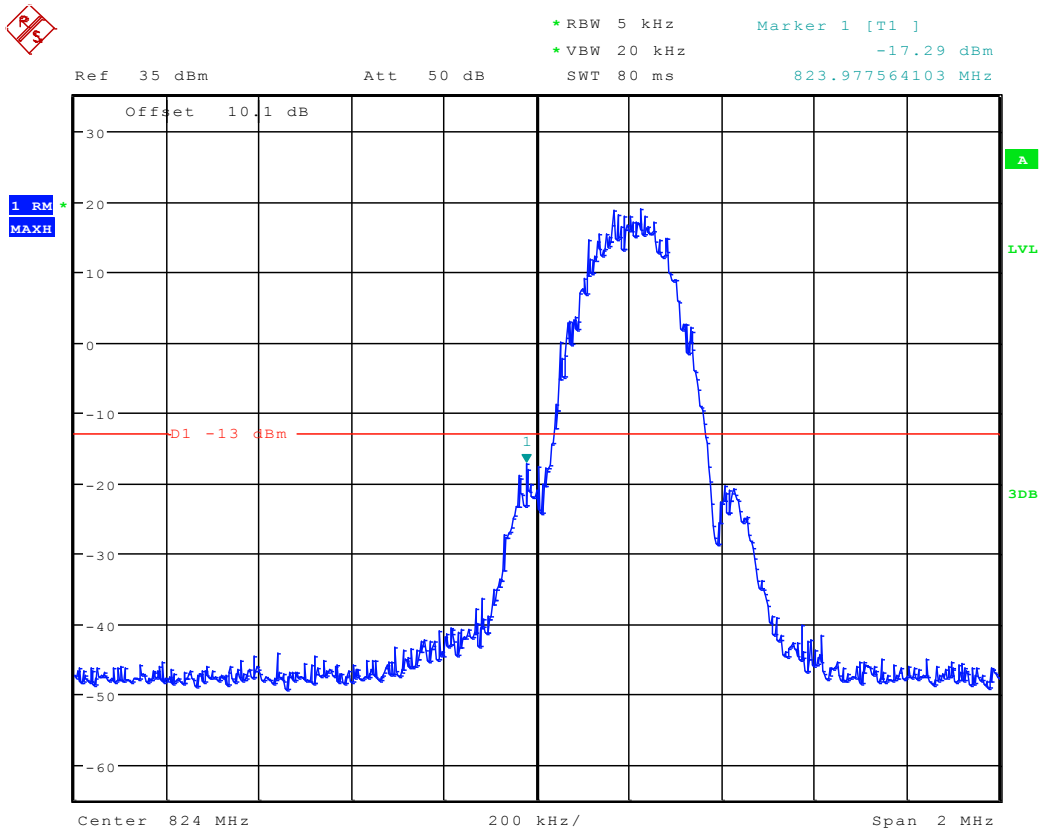
TM2:EDGE
Left Edge
Channel 128



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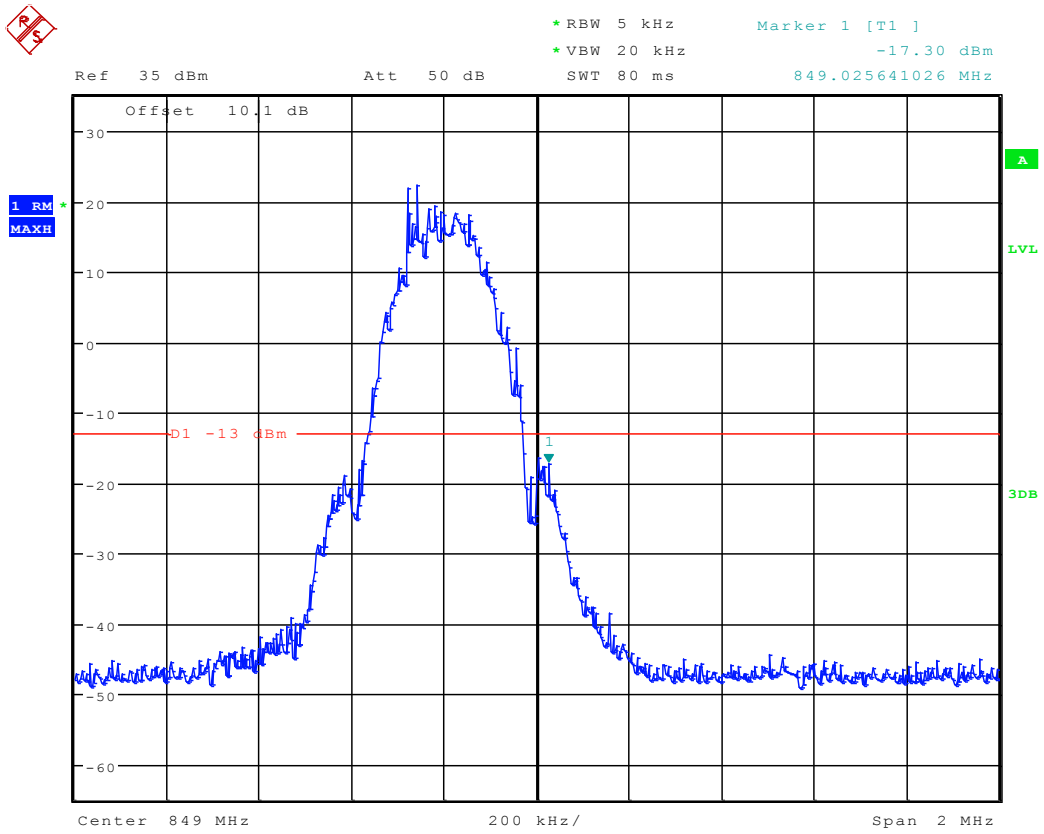
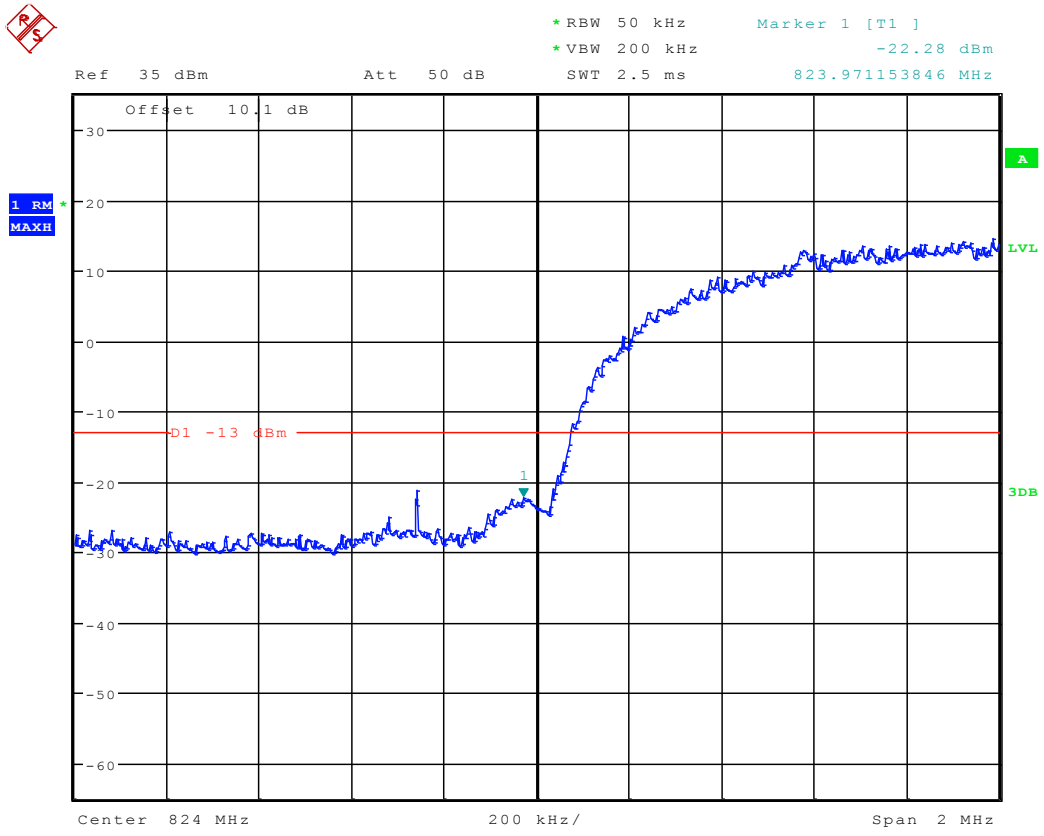
Right Edge
Channel 251



Date: 31.MAR.2012 15:53:55

TM3: WCDMA
Left Edge
Channel 4132



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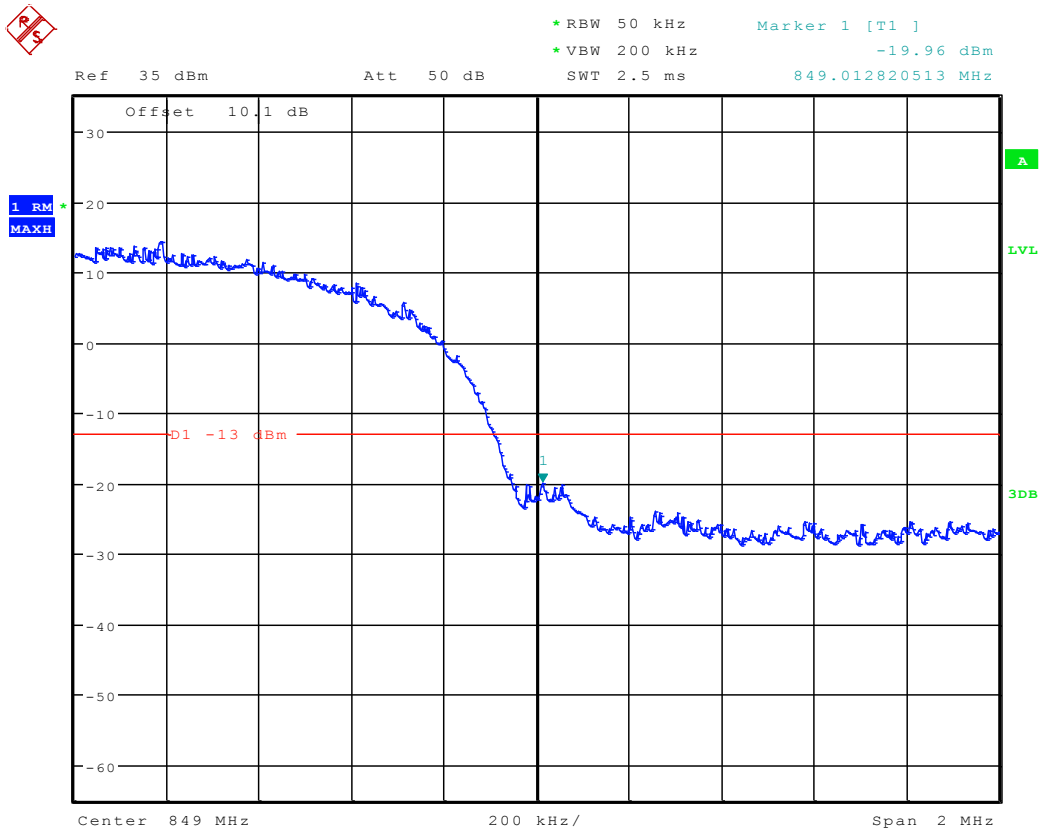
Right Edge
Channel 4233



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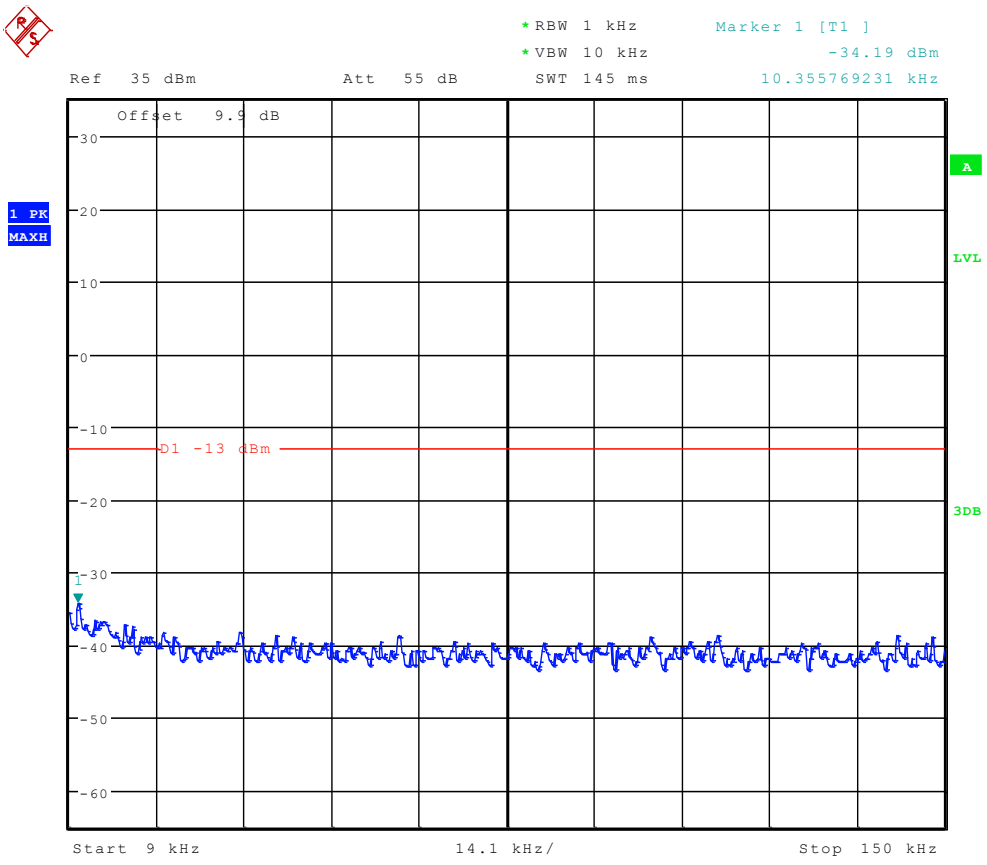
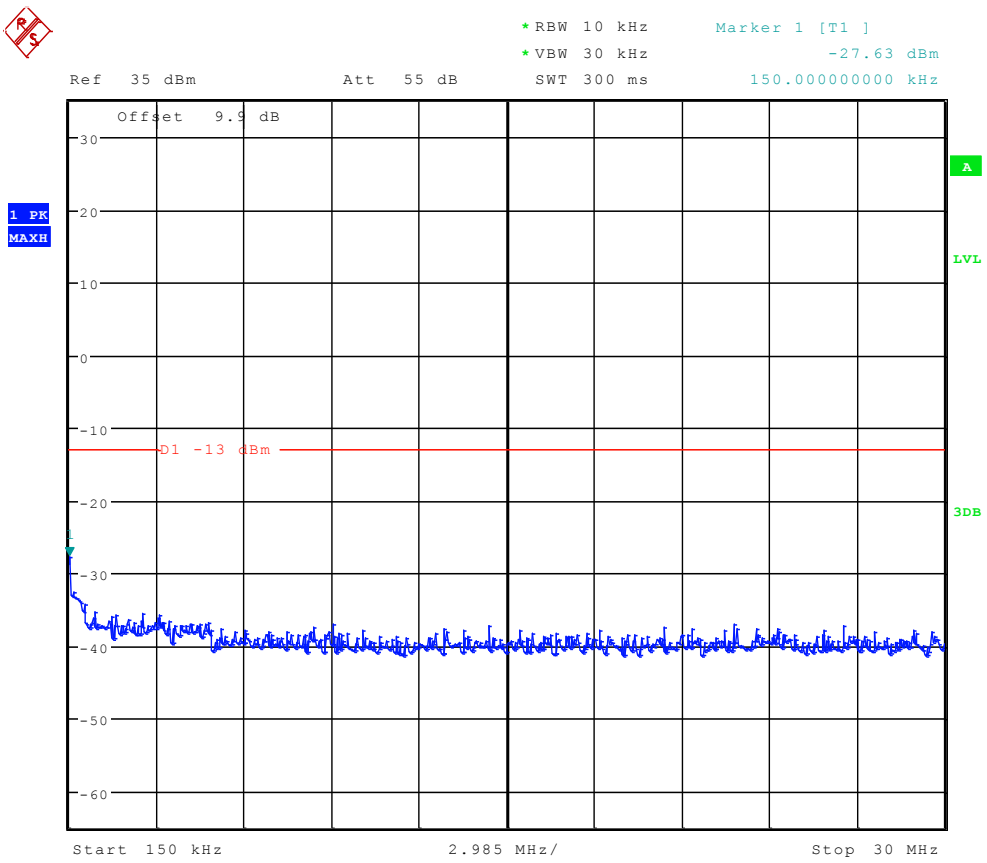
Appendix E

Spurious Emission at Antenna Terminal

According to FCC Part 2.1051 & Part 22 Subpart H

TM1:GPRS/GSM
Channel 128





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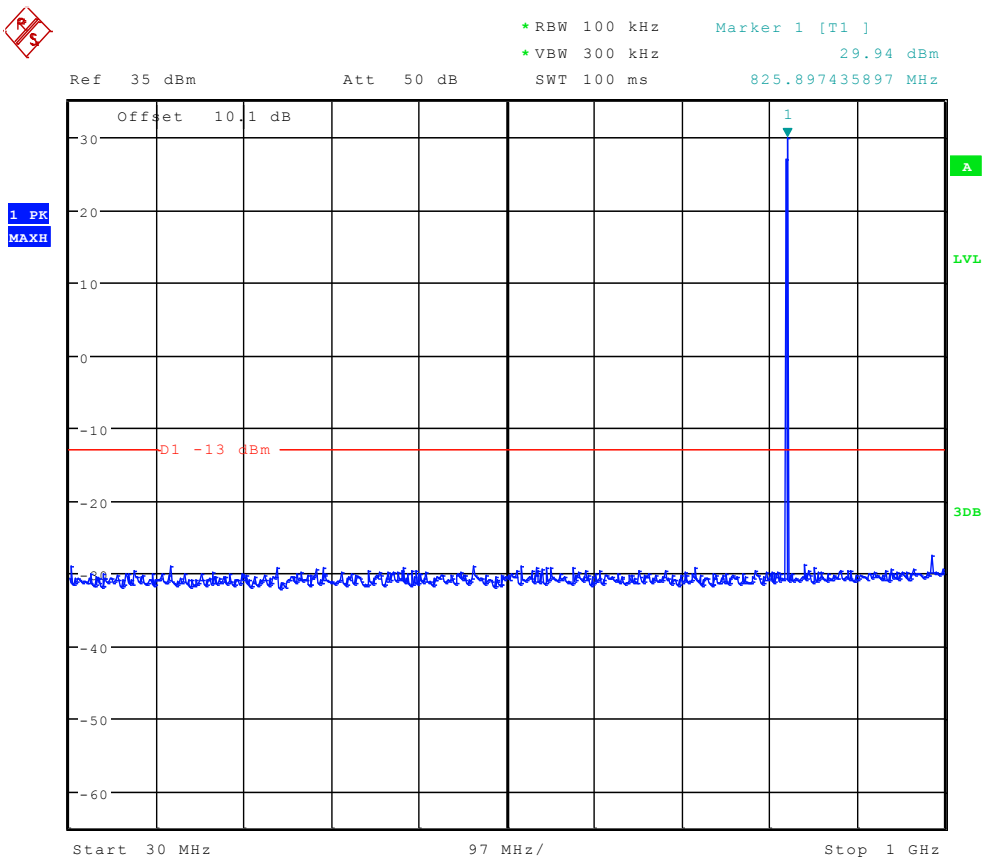

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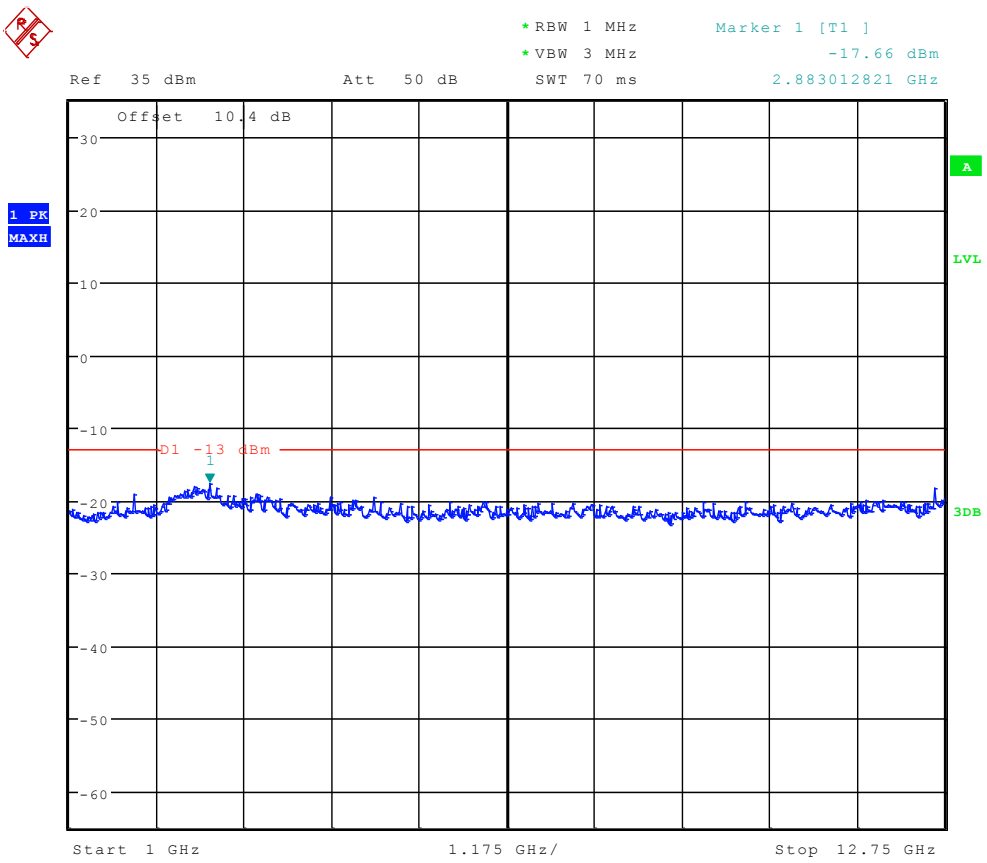

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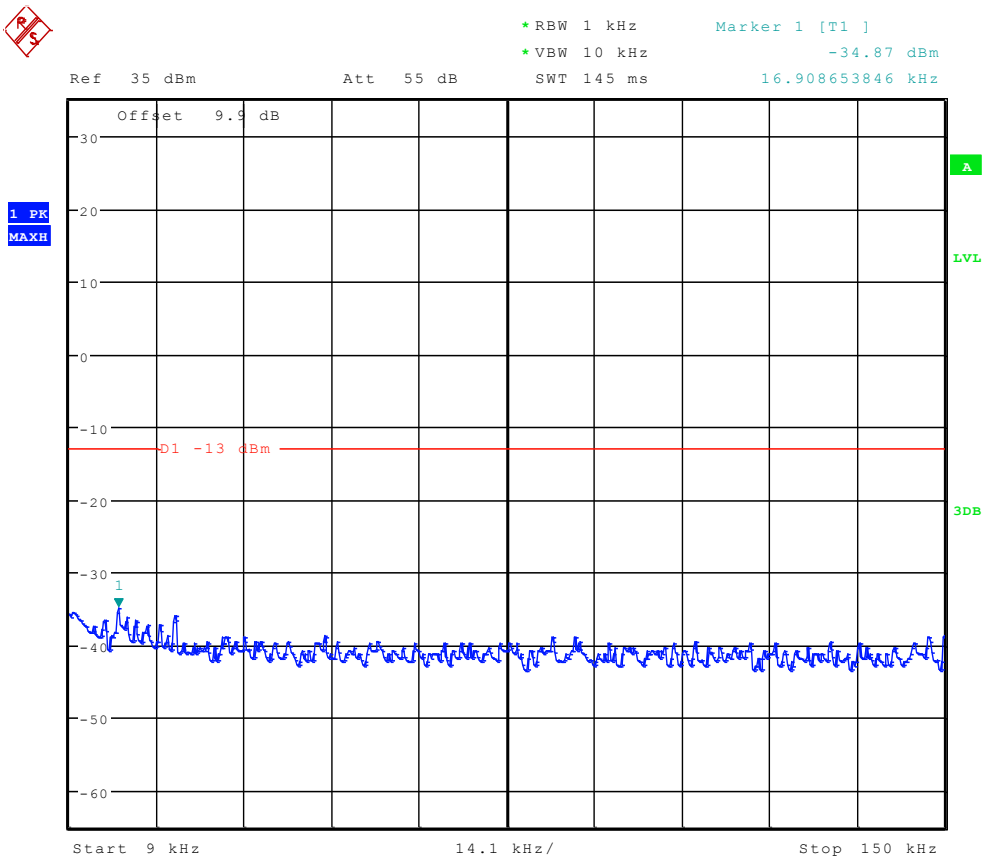
Channel 192



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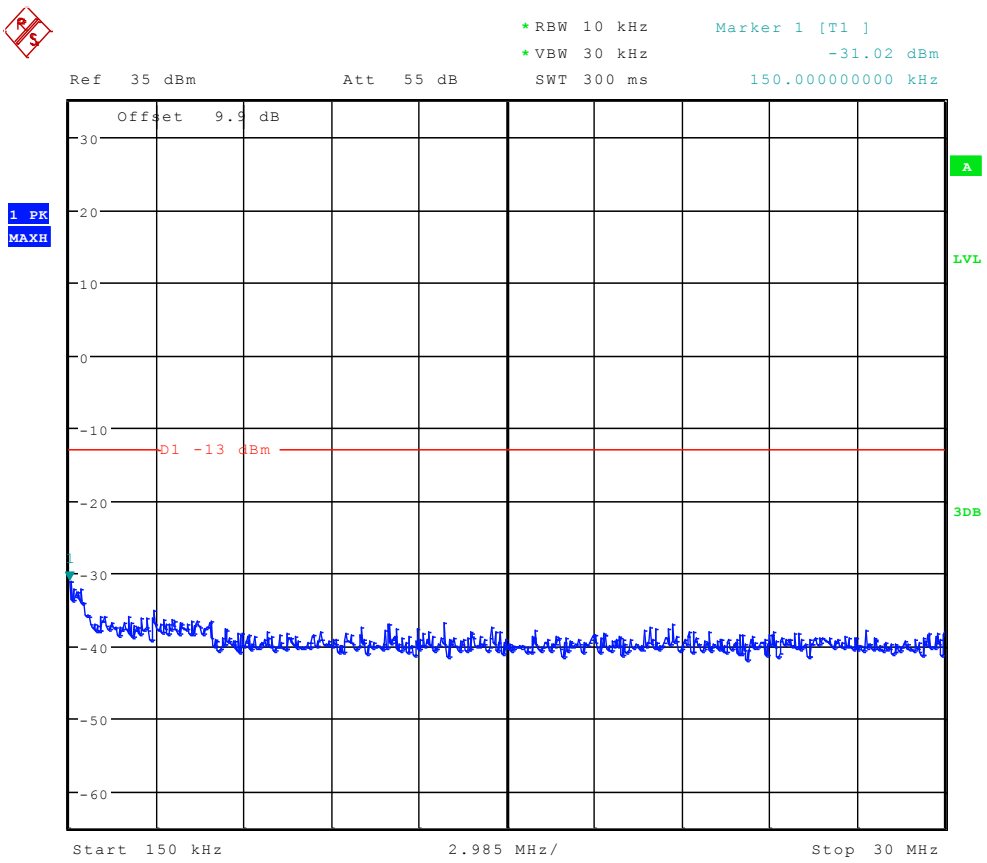

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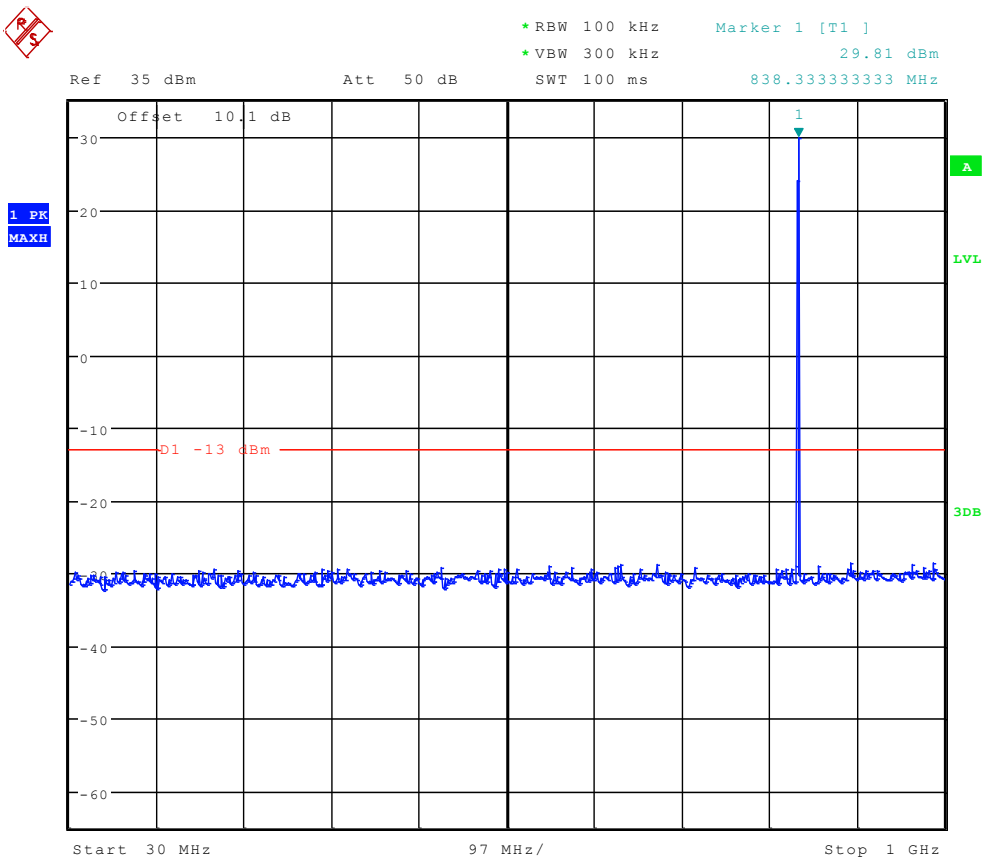
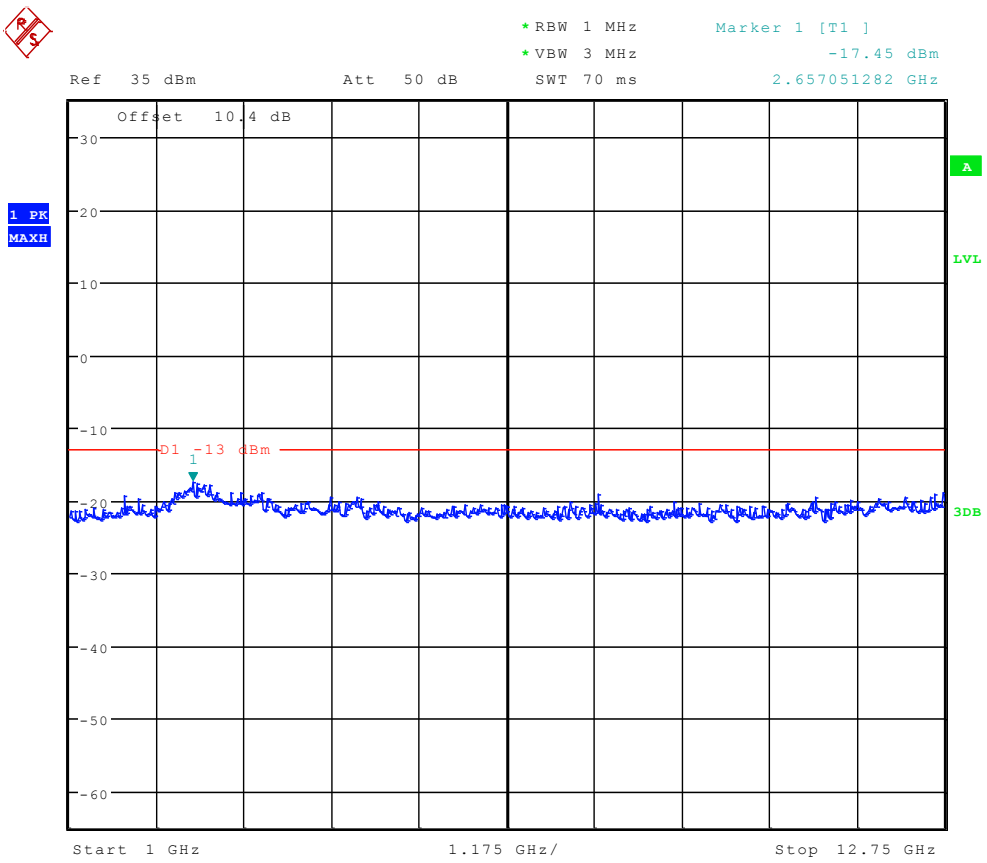


Date: 26.MAR.2012 10:49:04



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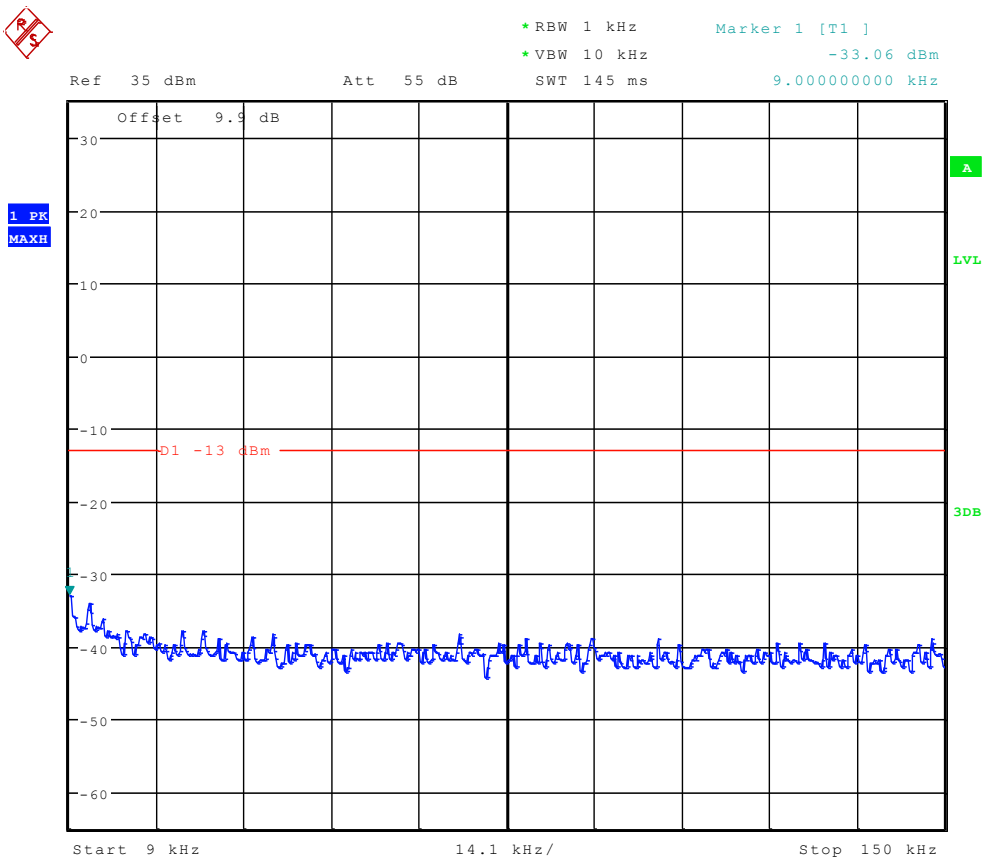
Channel 251



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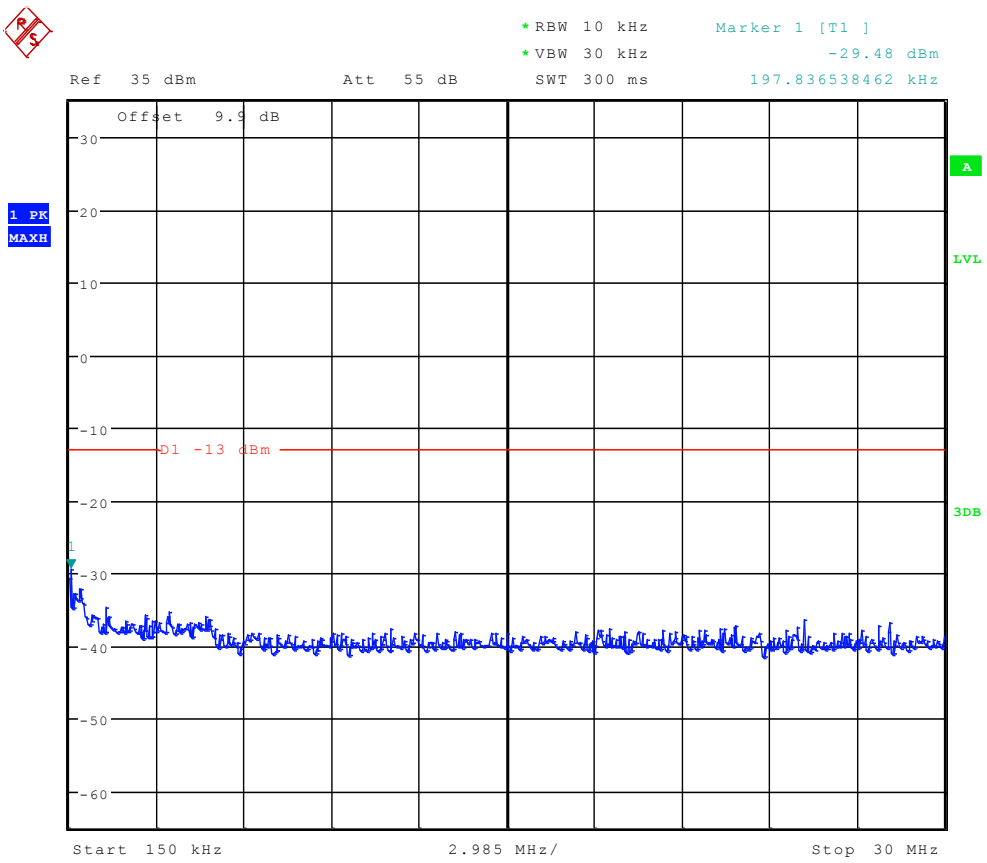

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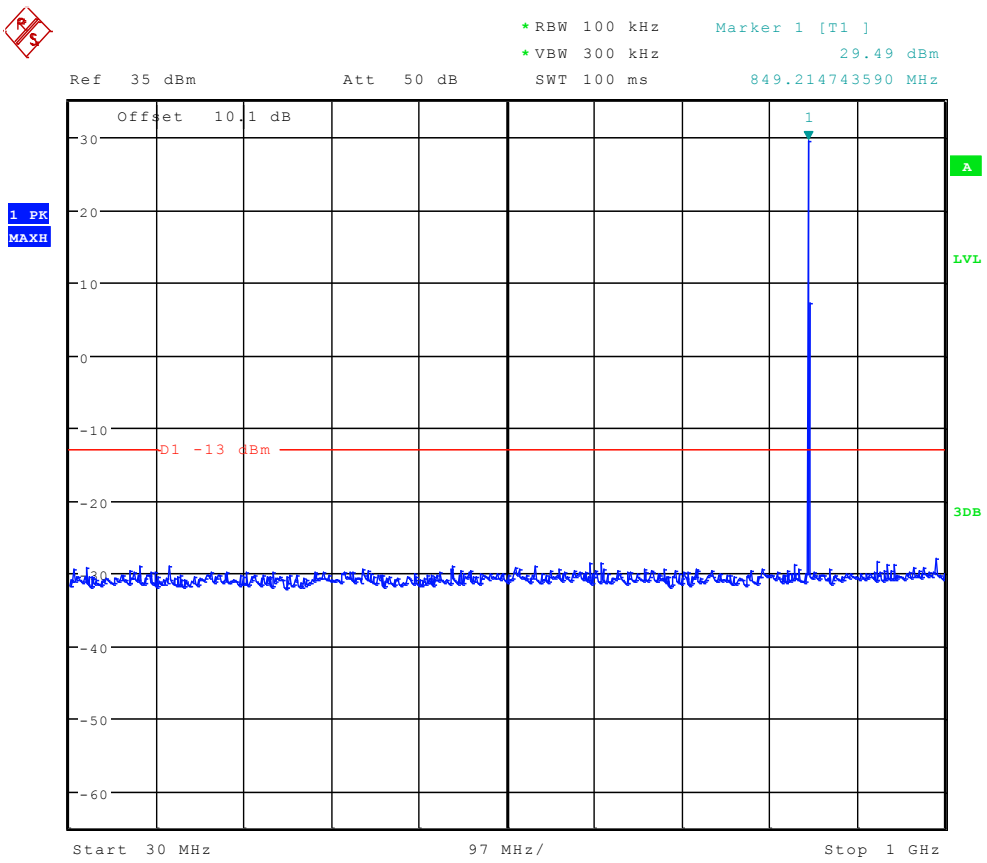

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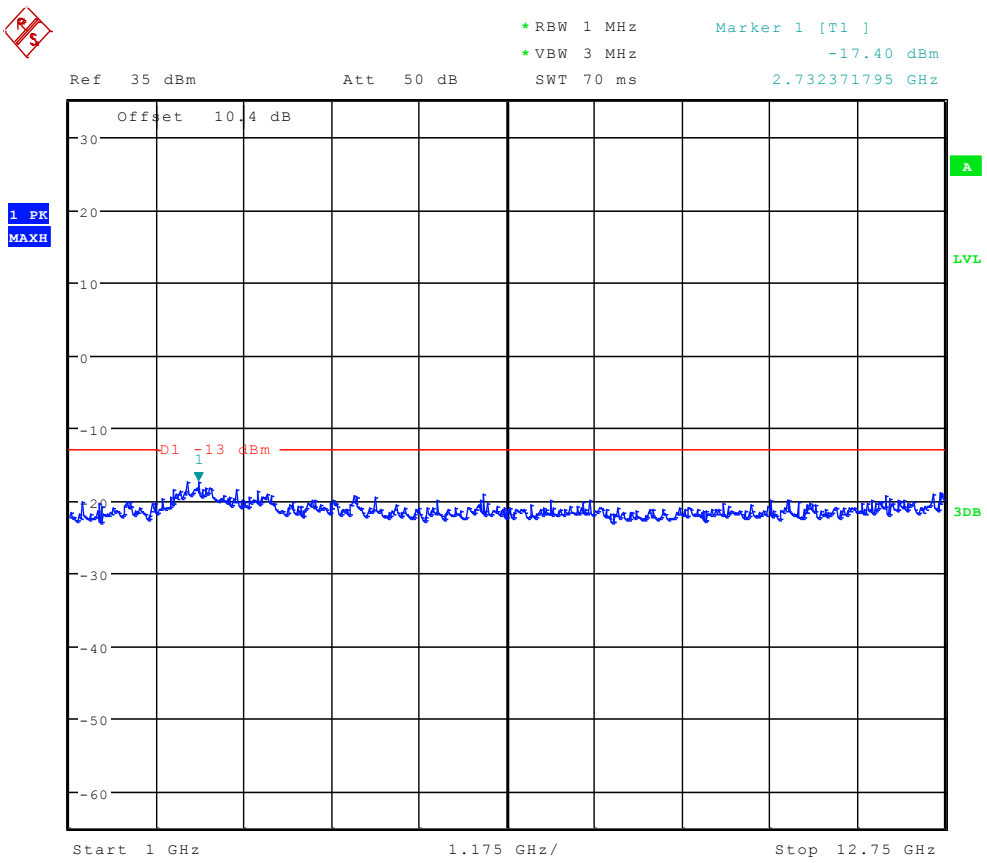

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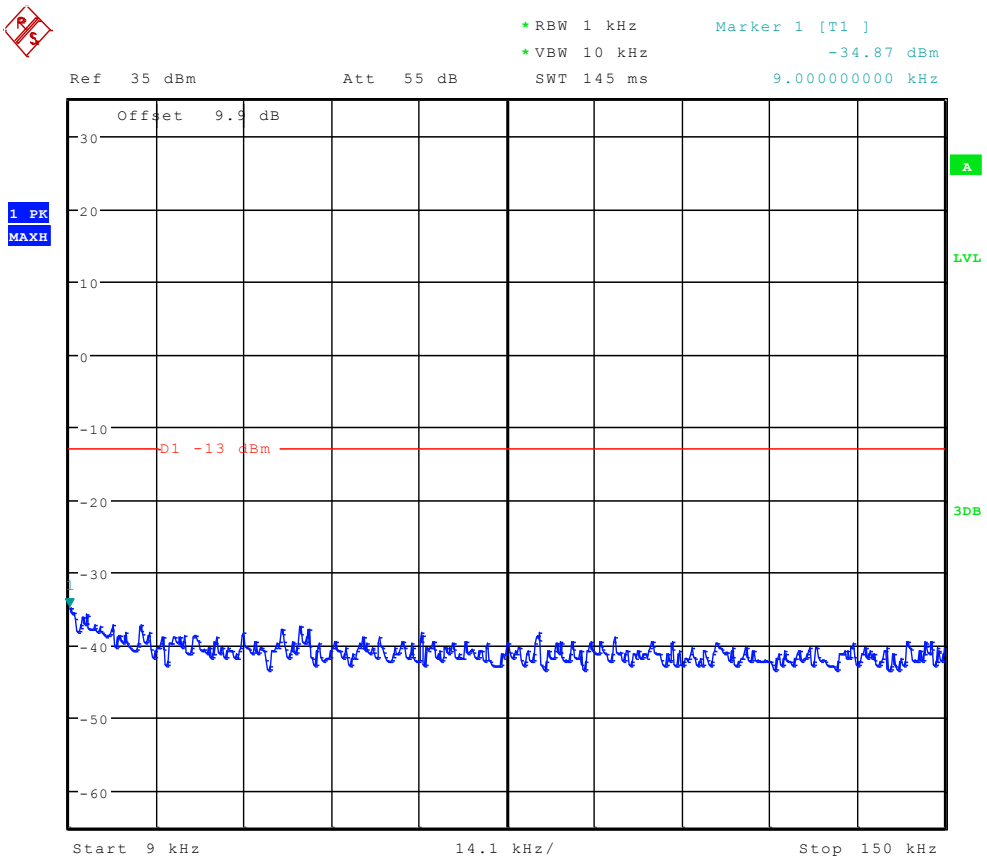
TM2:EDGE
Channel 128



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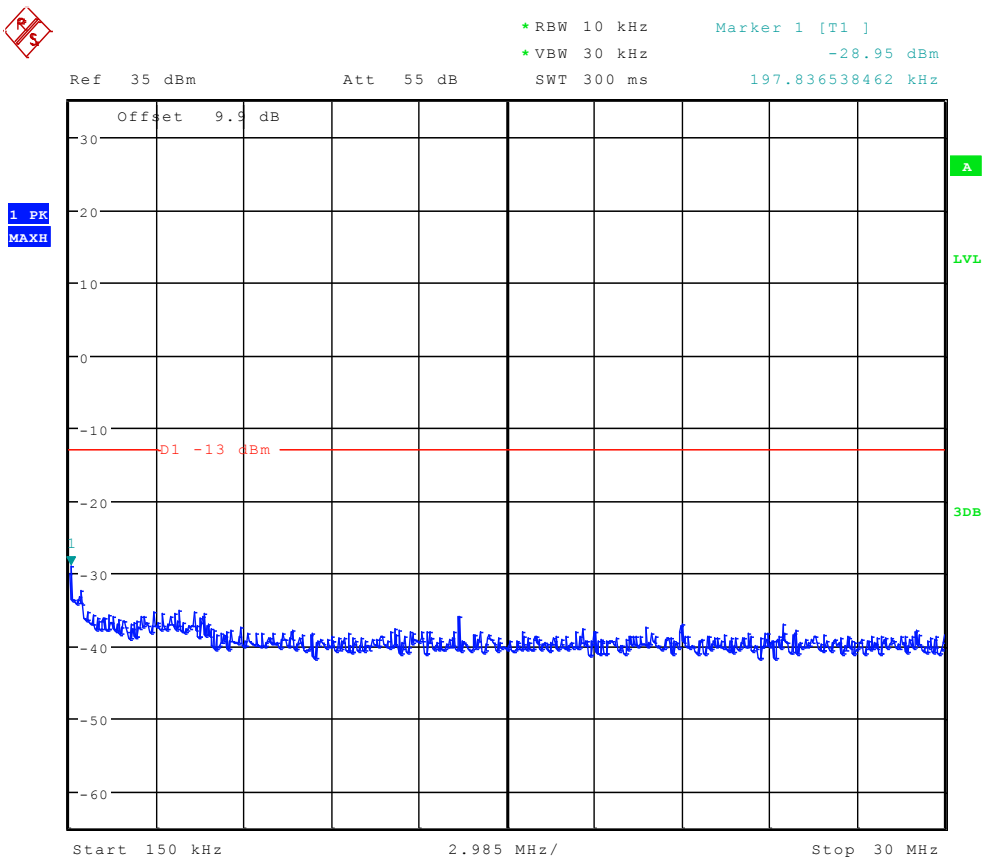

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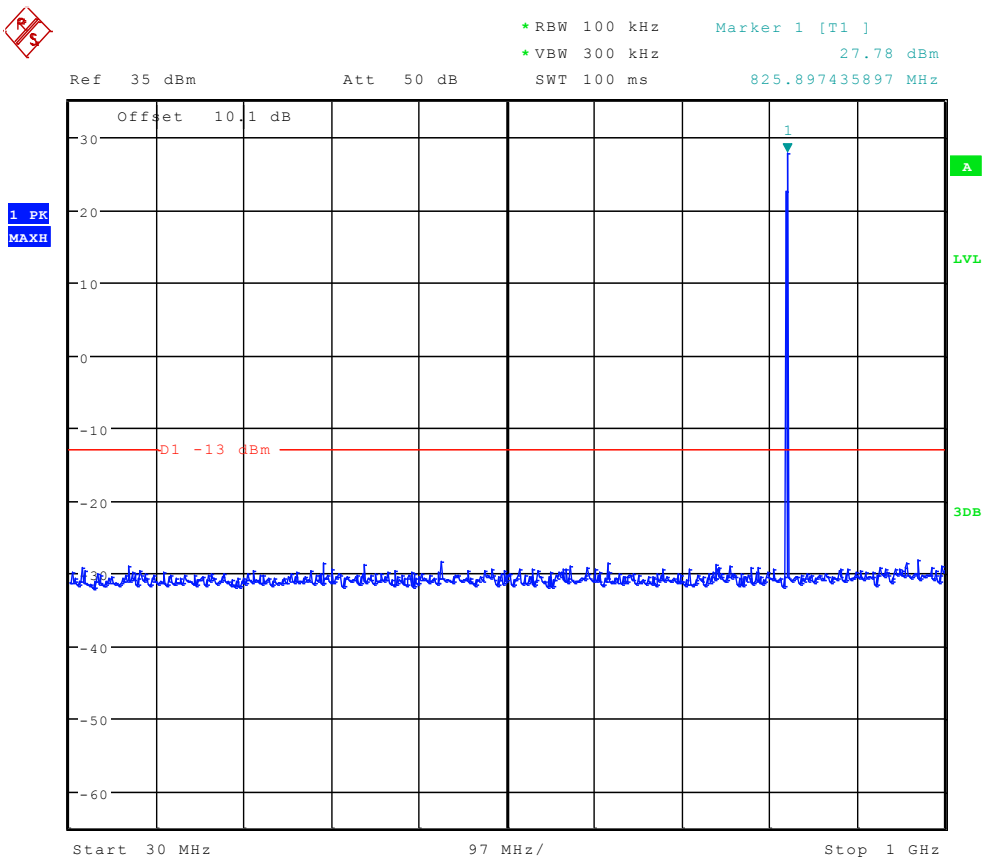

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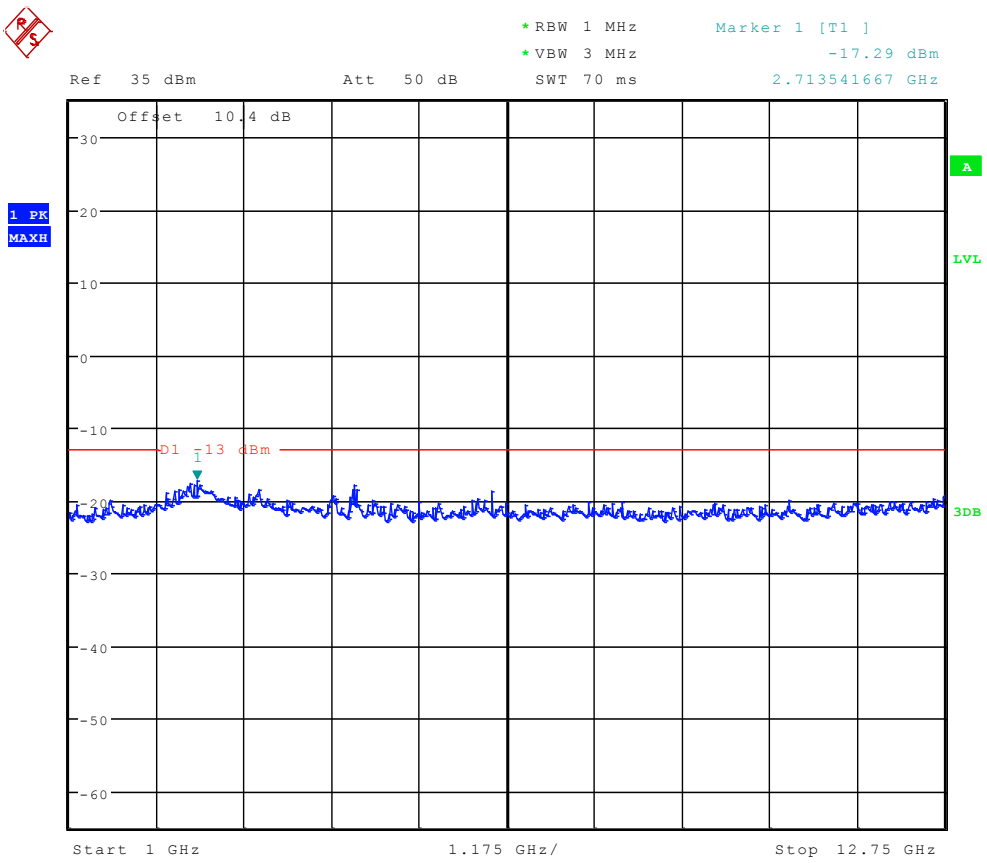
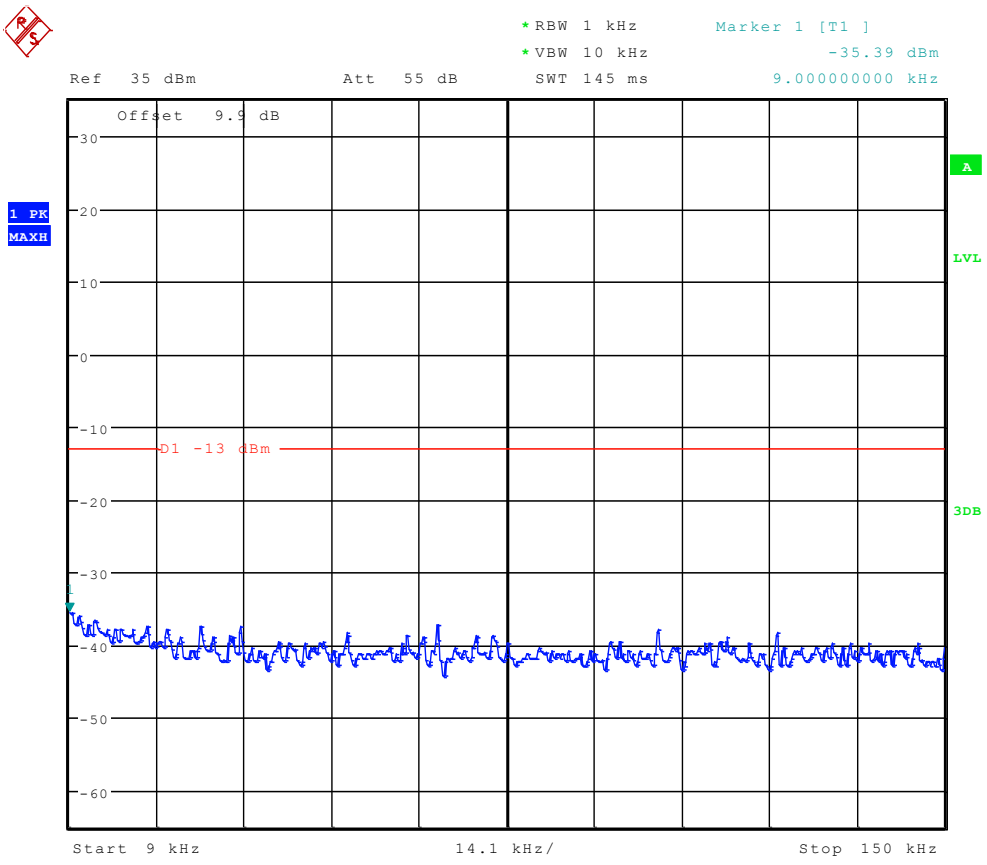


Date: 26.MAR.2012 10:57:39

Channel 192



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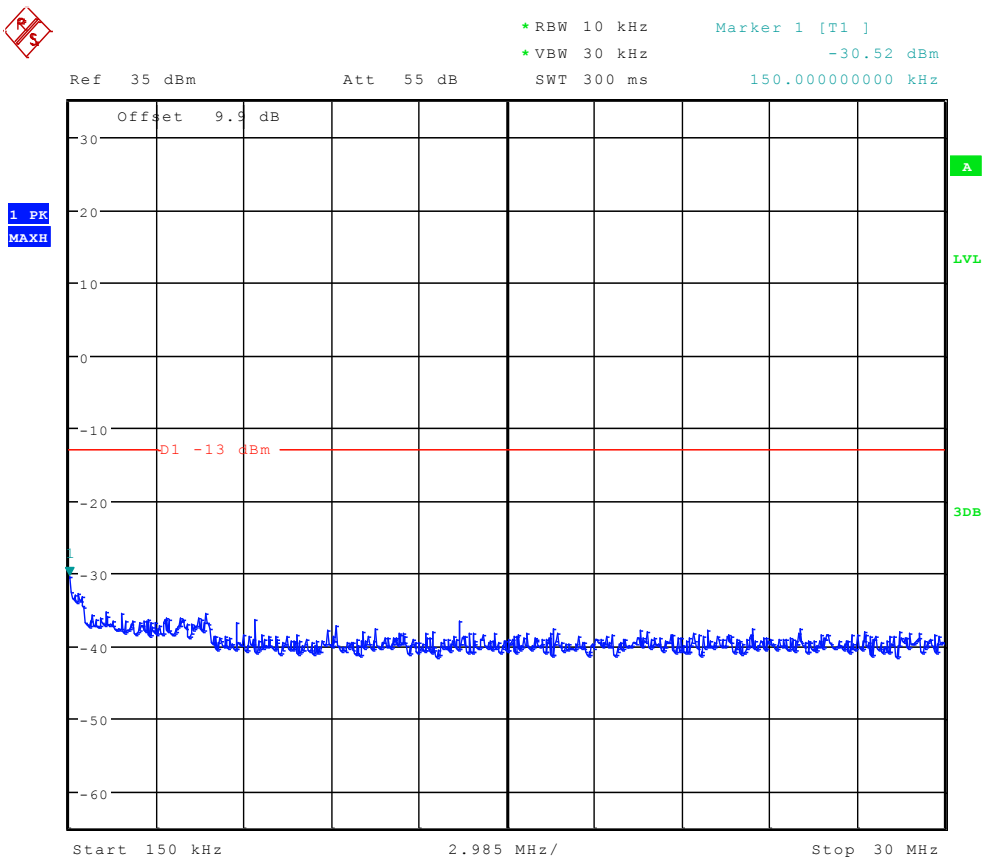

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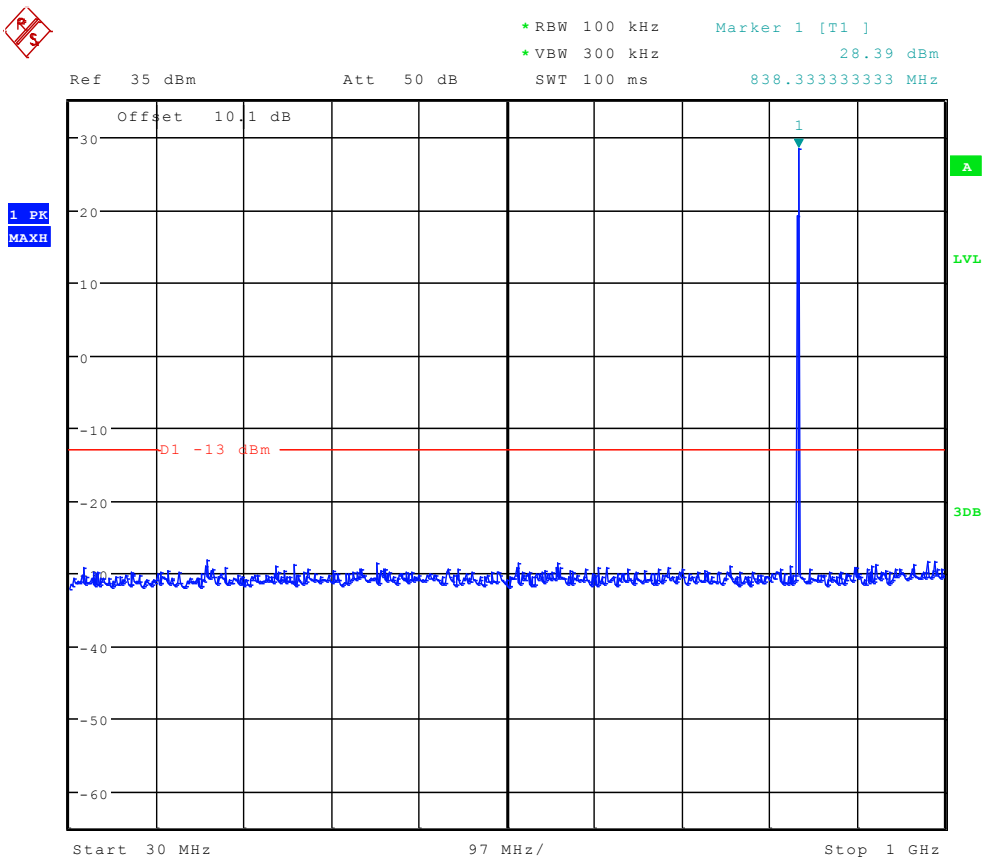
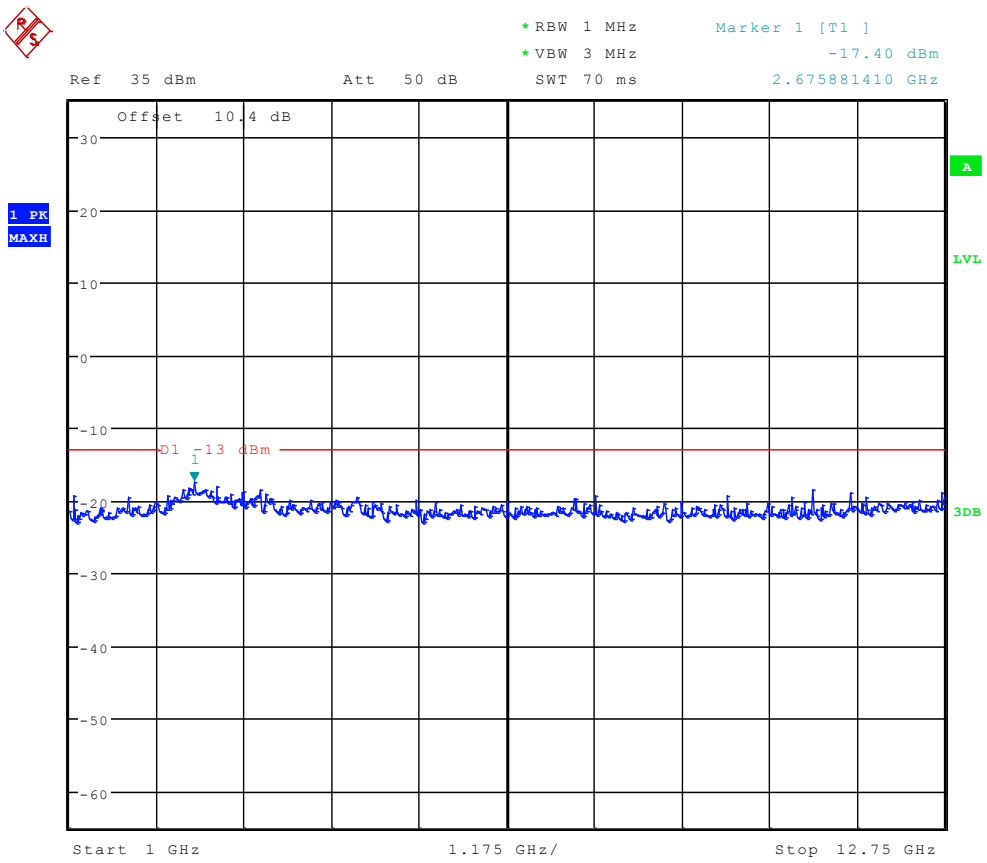


Date: 26.MAR.2012 10:57:10



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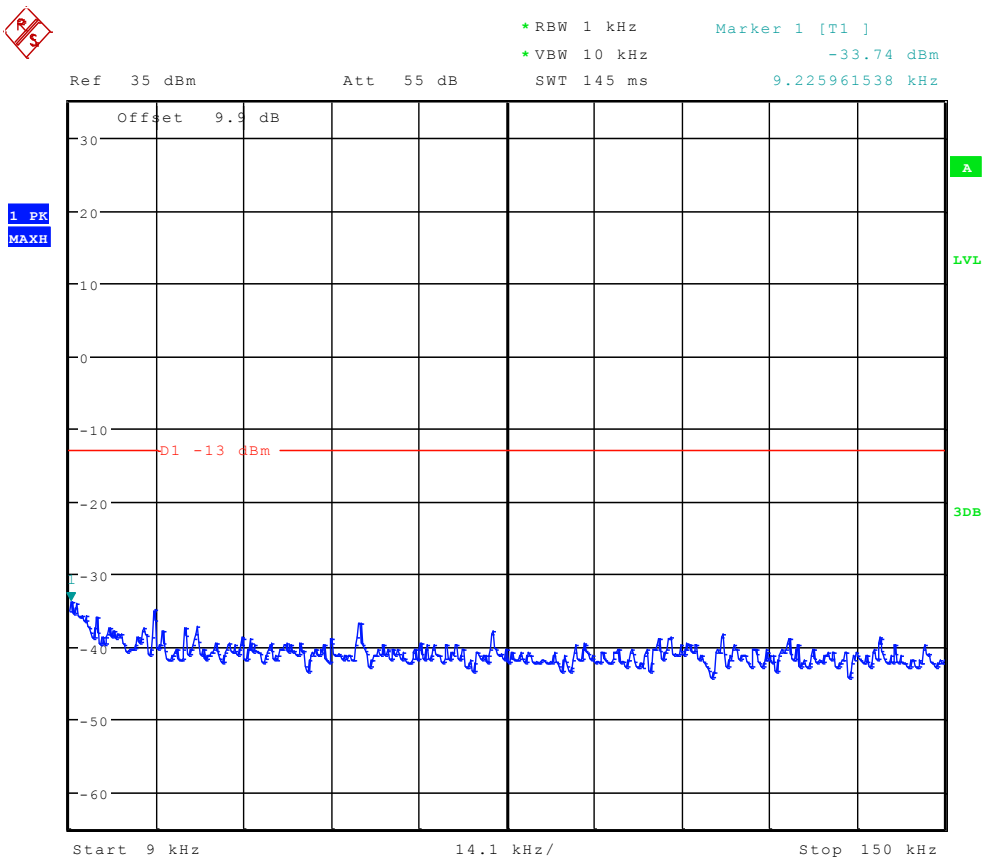
Channel 251



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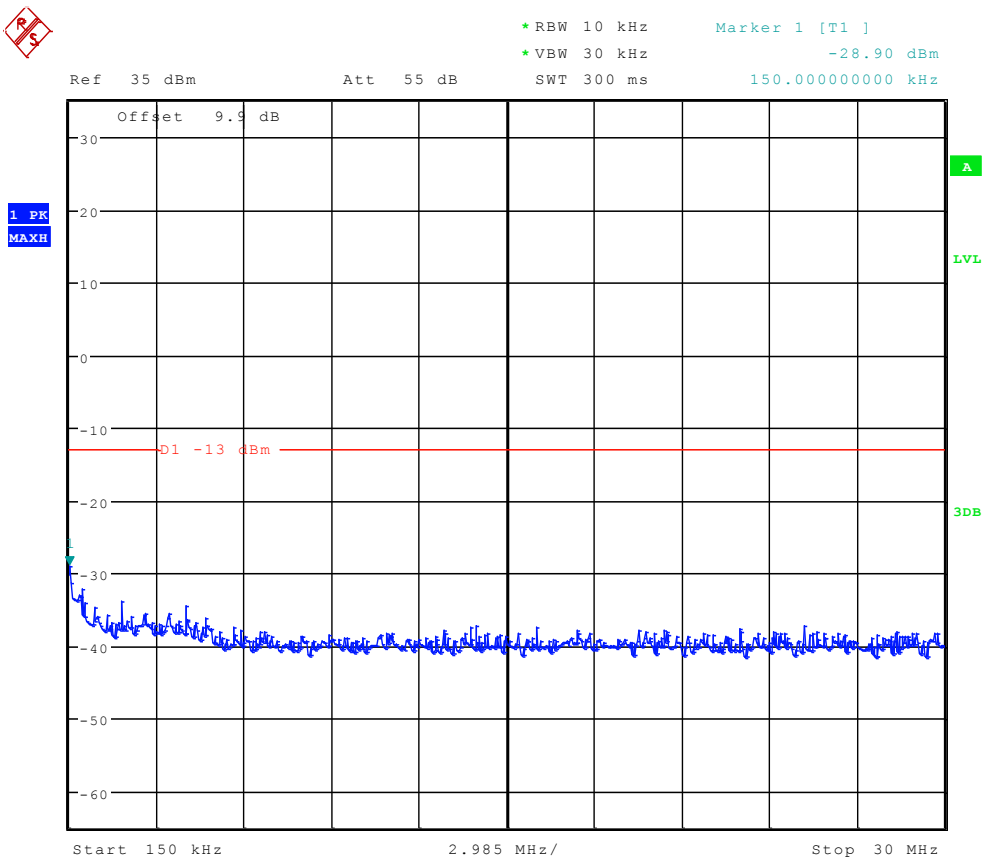

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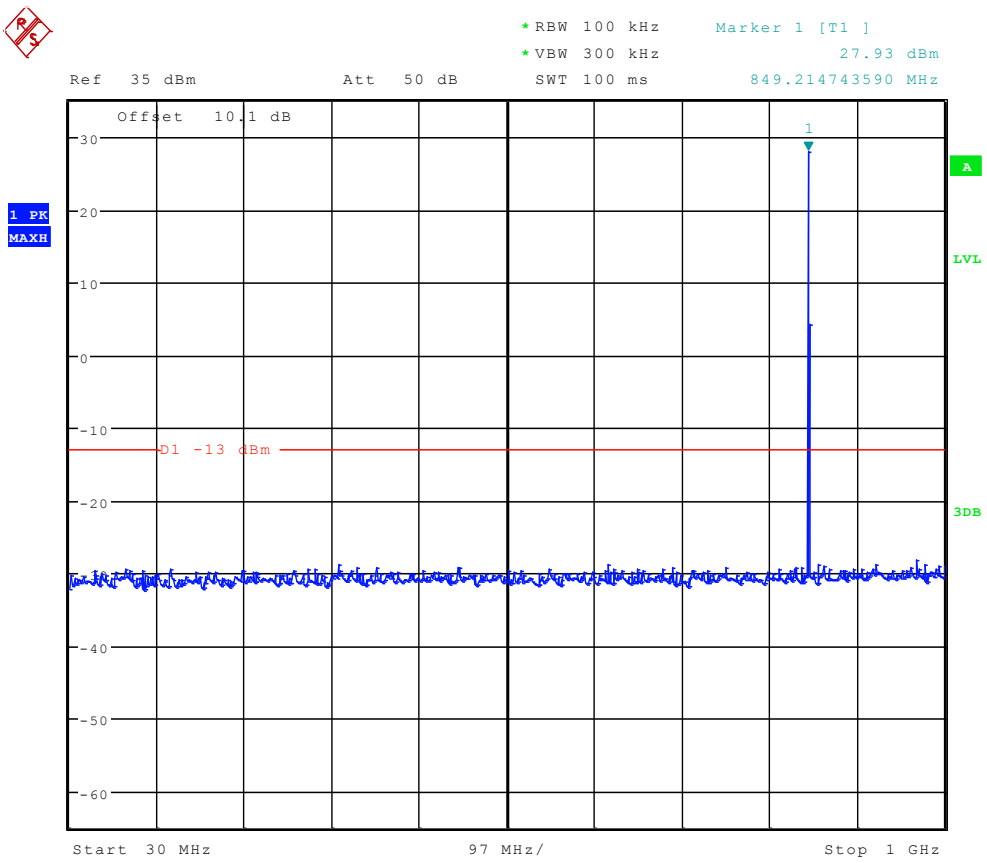

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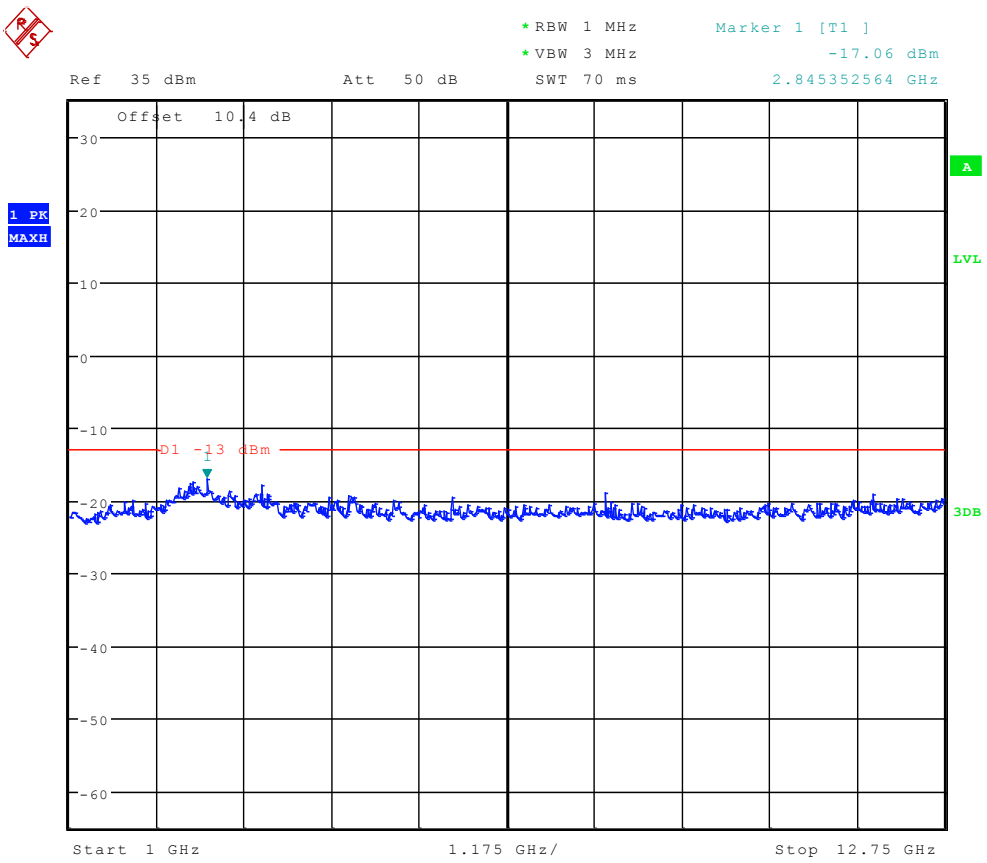
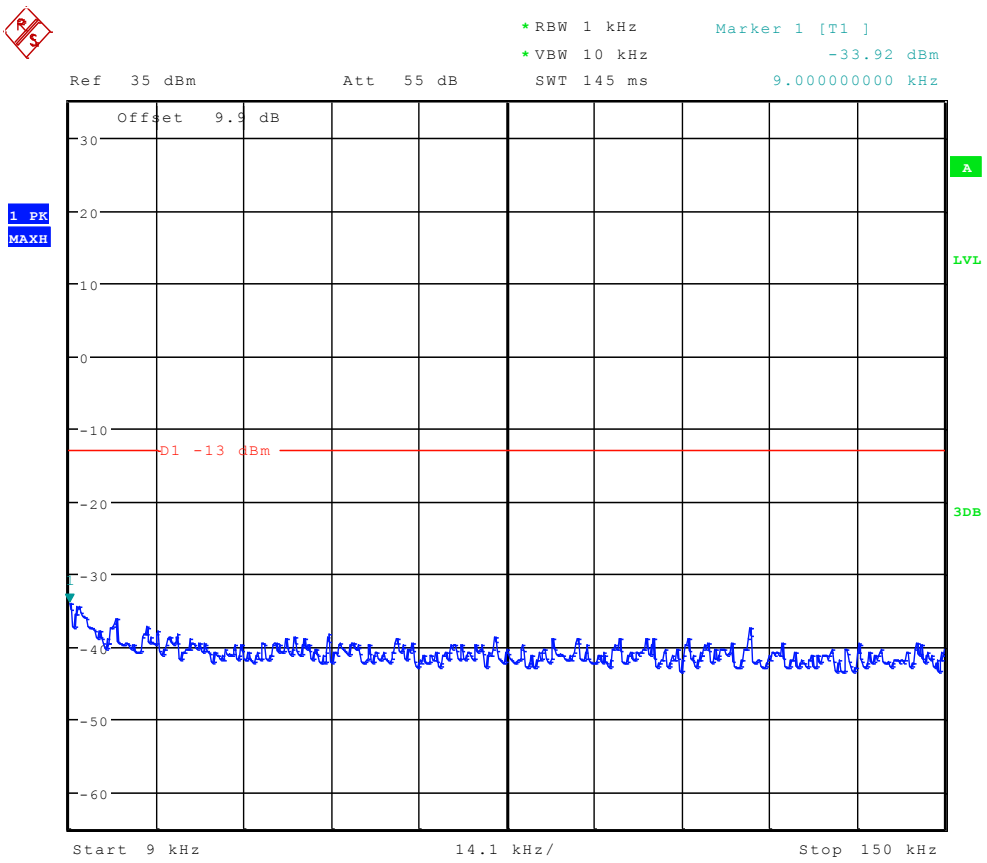
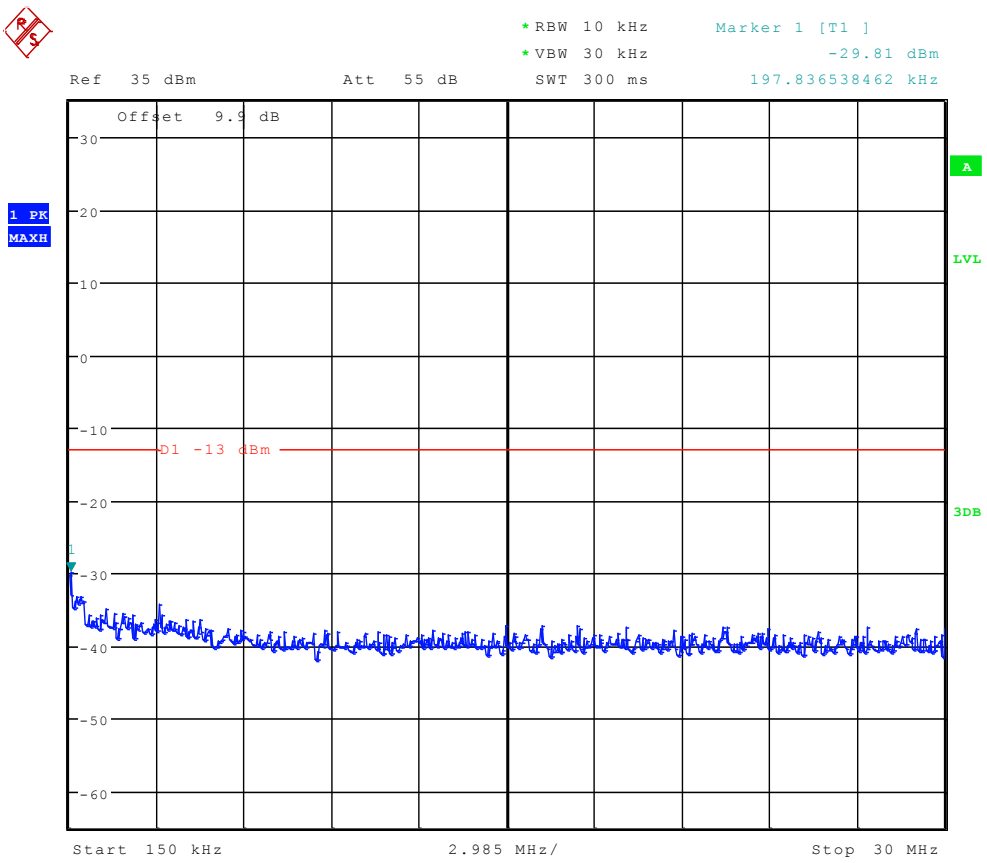


Date: 26.MAR.2012 10:58:08

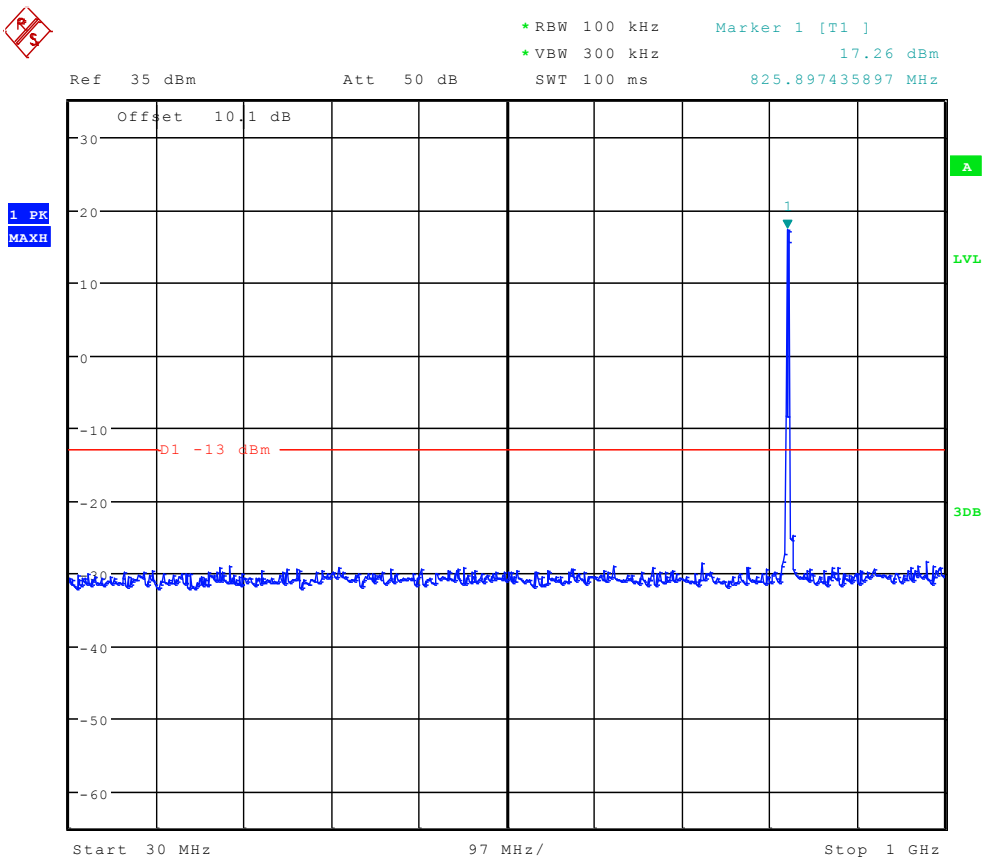
TM3: WCDMA
Channel 4132



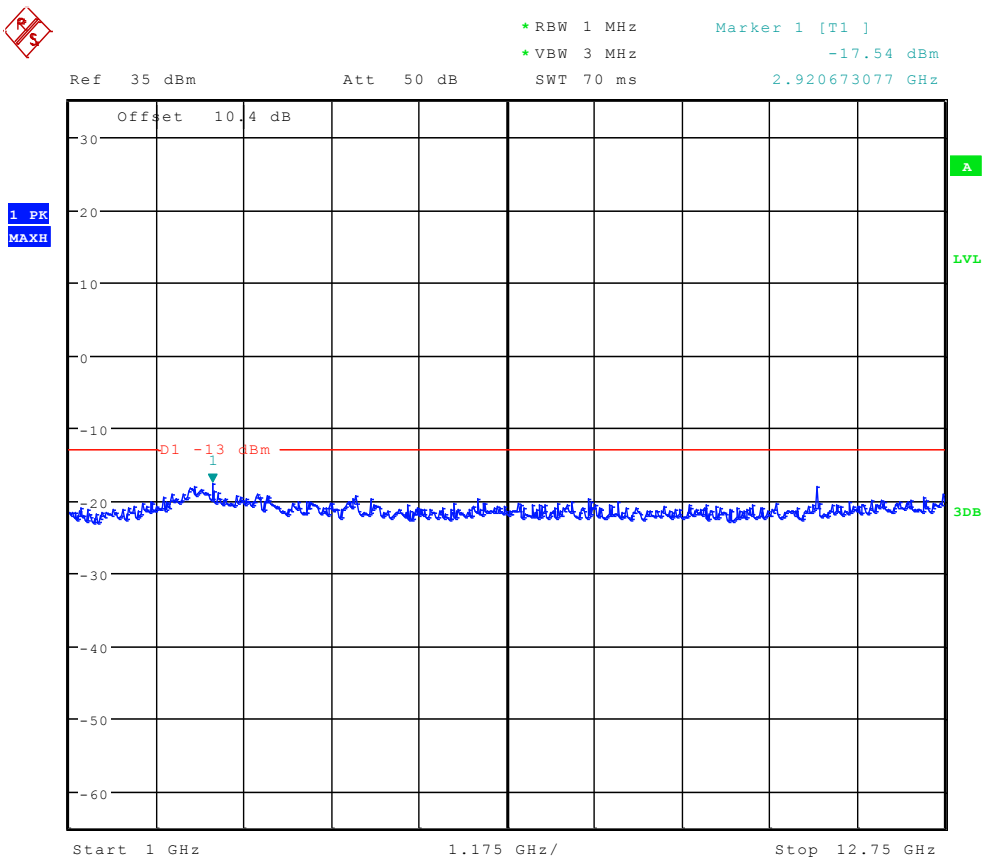
Date: 26.MAR.2012 11:02:09



Date: 26.MAR.2012 11:02:52

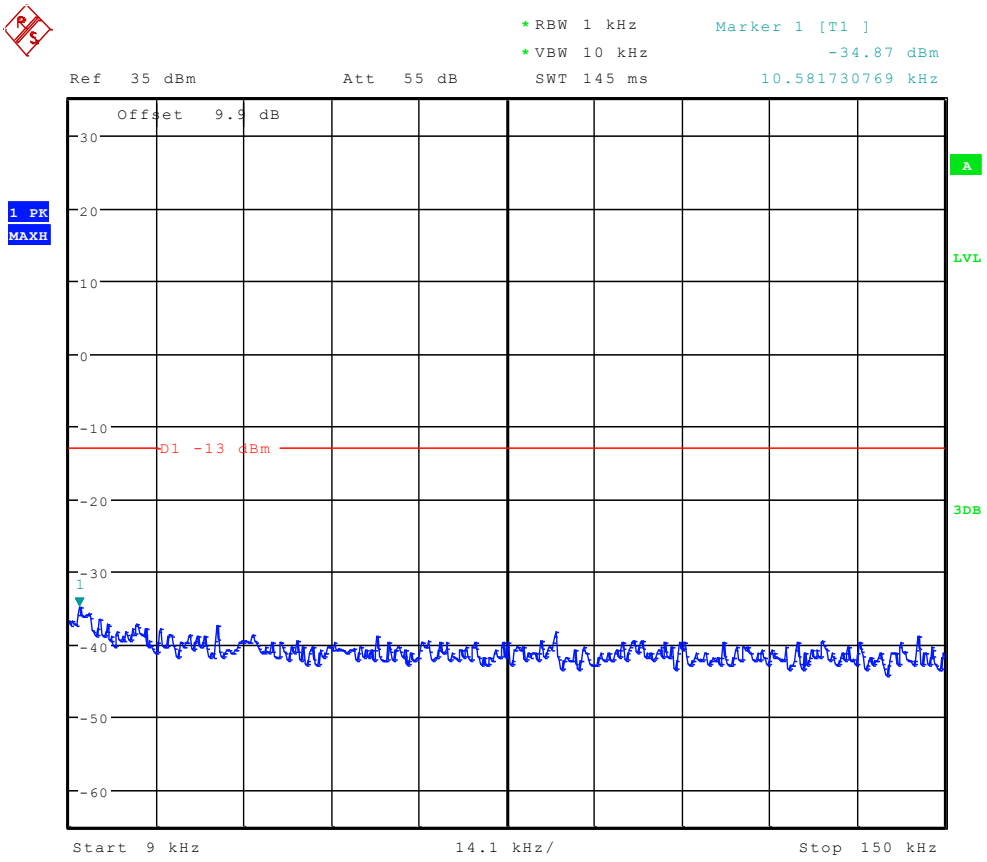


Date: 26.MAR.2012 11:03:36

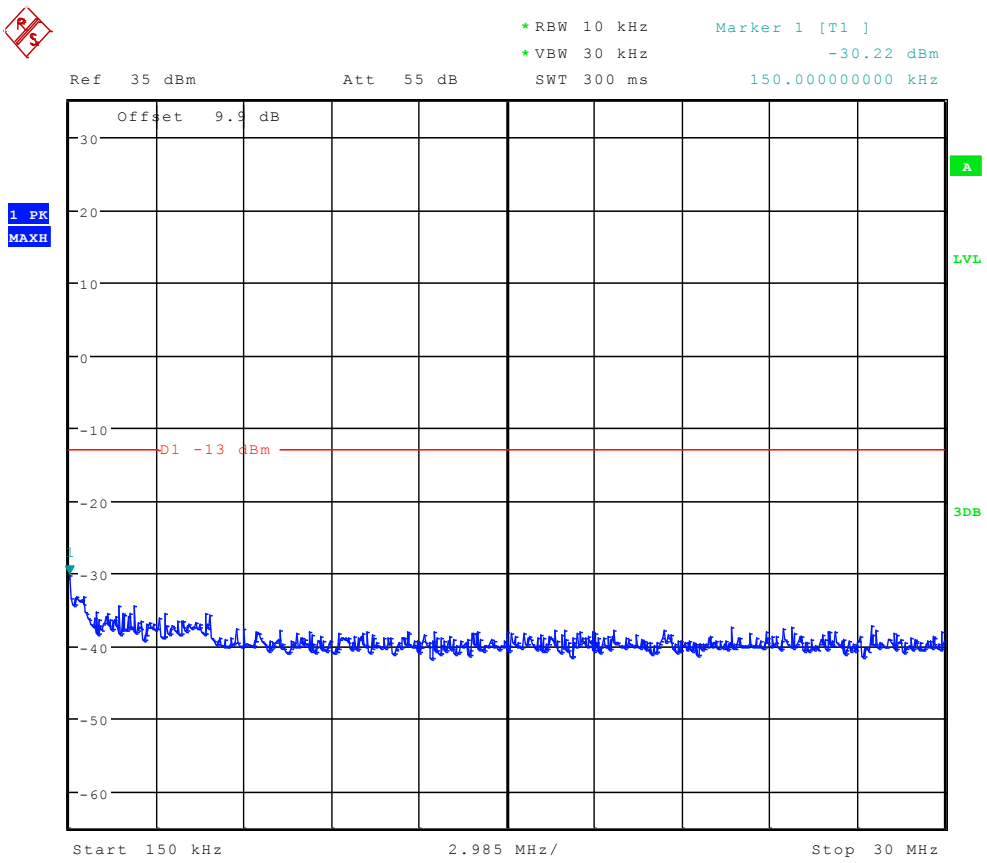


Date: 26.MAR.2012 11:04:20

Channel 4182



Date: 26.MAR.2012 11:02:23



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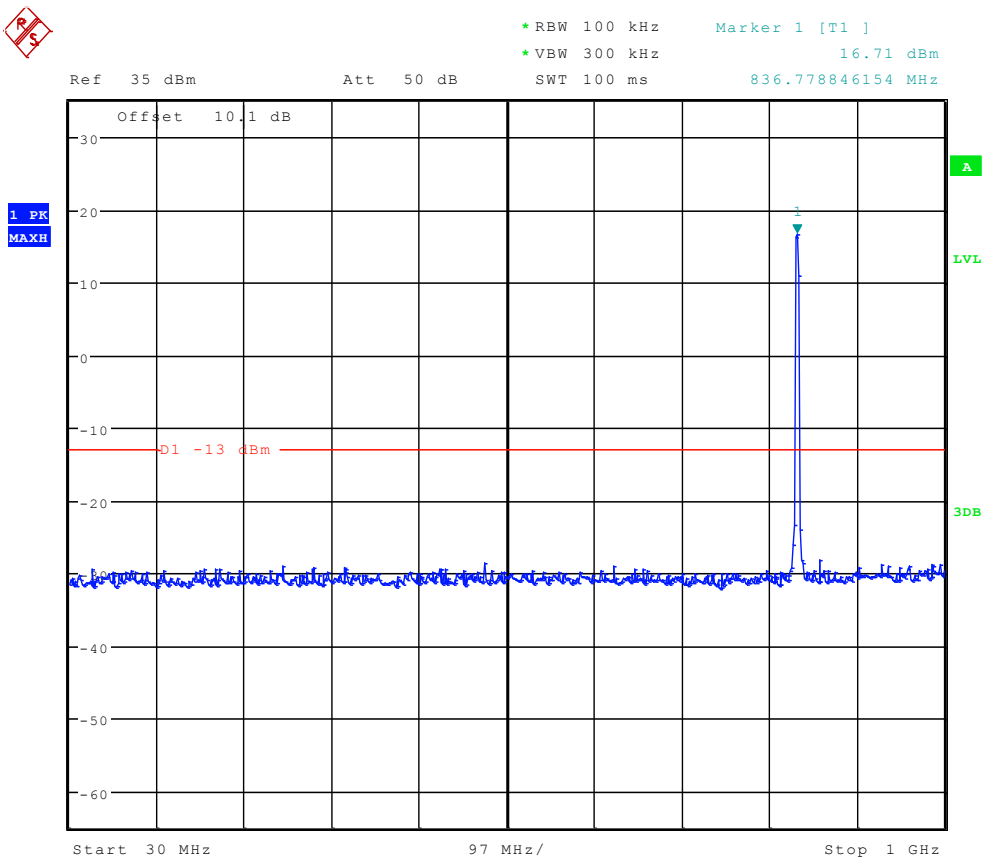
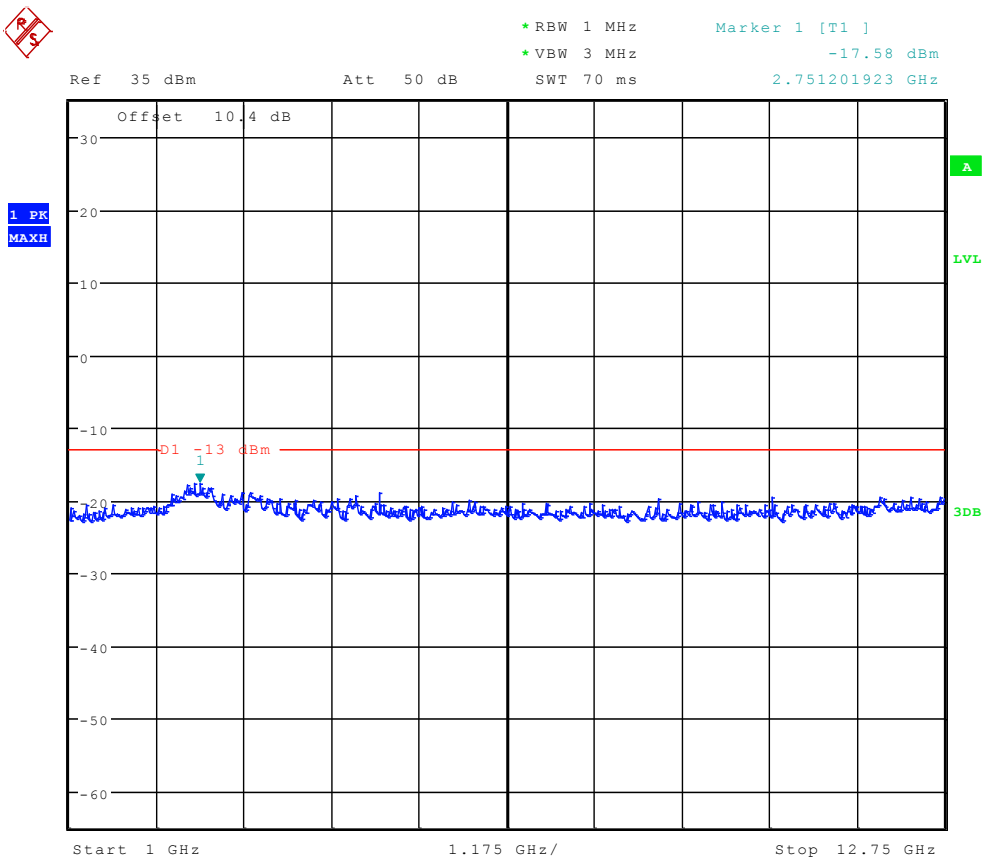
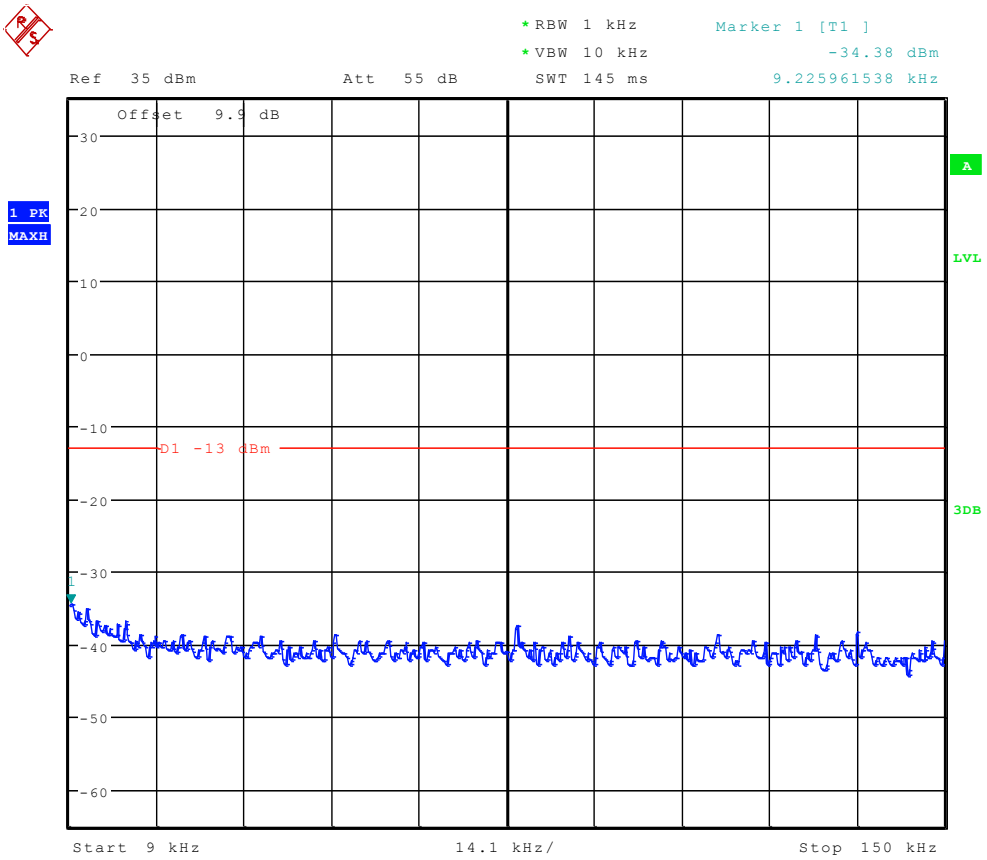


Date: 26.MAR.2012 11:03:50

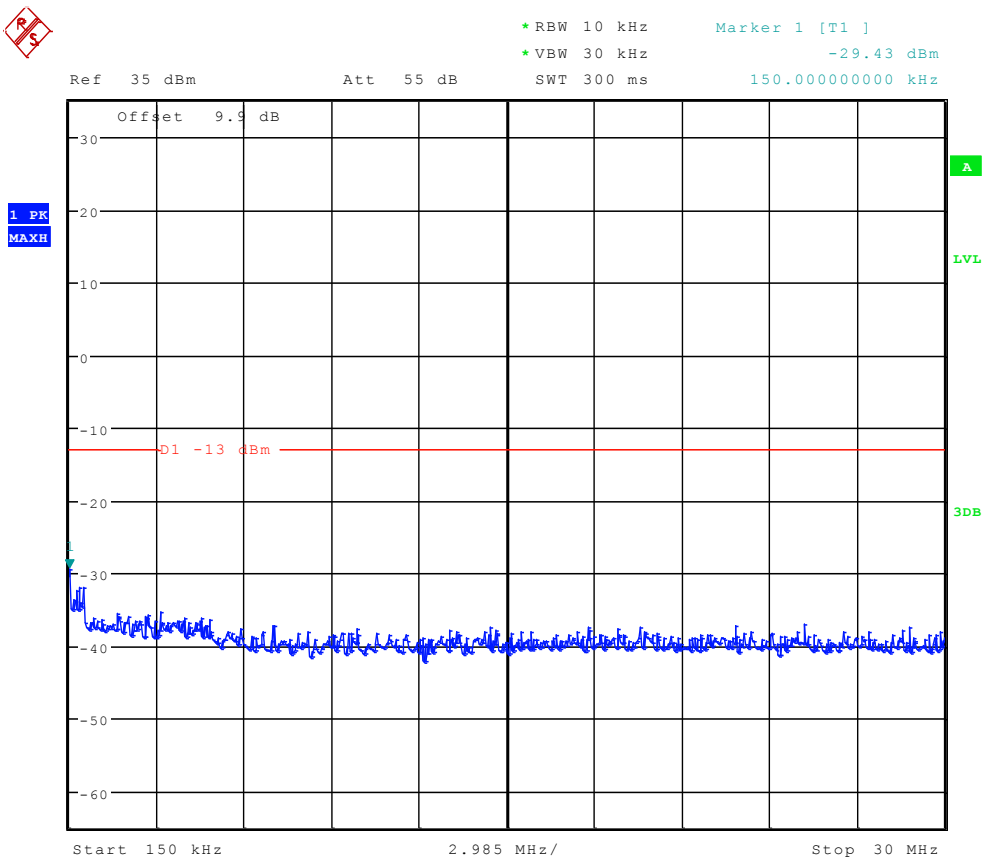


Date: 26.MAR.2012 11:04:34

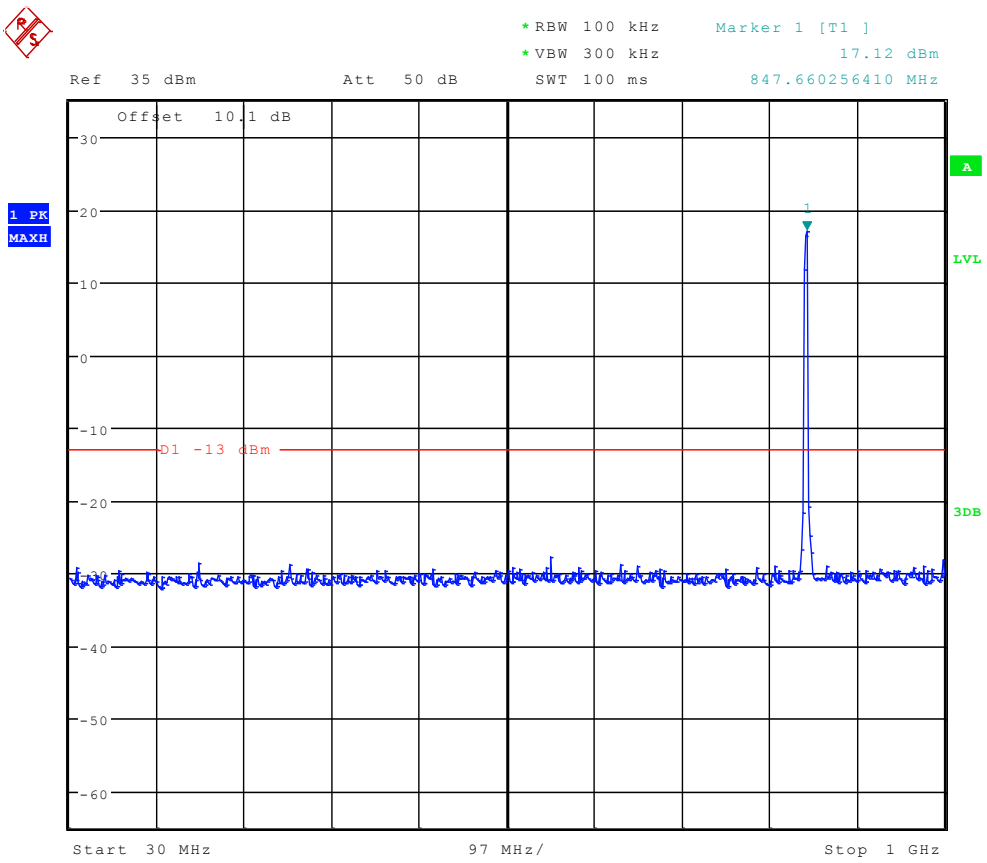
Channel 4233



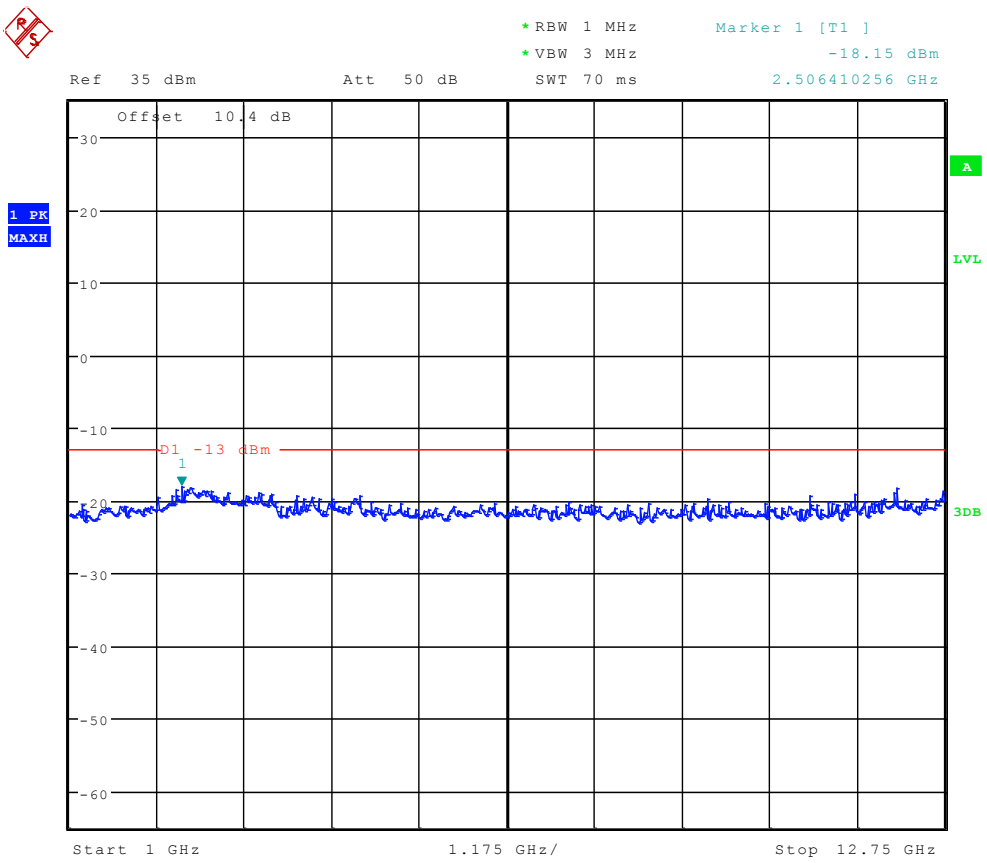
Date: 26.MAR.2012 11:02:37



Date: 26.MAR.2012 11:03:21



Date: 26.MAR.2012 11:04:05


RBW 1 MHz
VBW 3 MHz
SWT 70 ms
Marker 1 [T1]
-18.15 dBm
2.506410256 GHz
Ref 35 dBm
Att 50 dB
Offset 10.4 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
Start 1 GHz
1.175 GHz/
Stop 12.75 GHz
Date: 26.MAR.2012 11:04:49

----------The END----------
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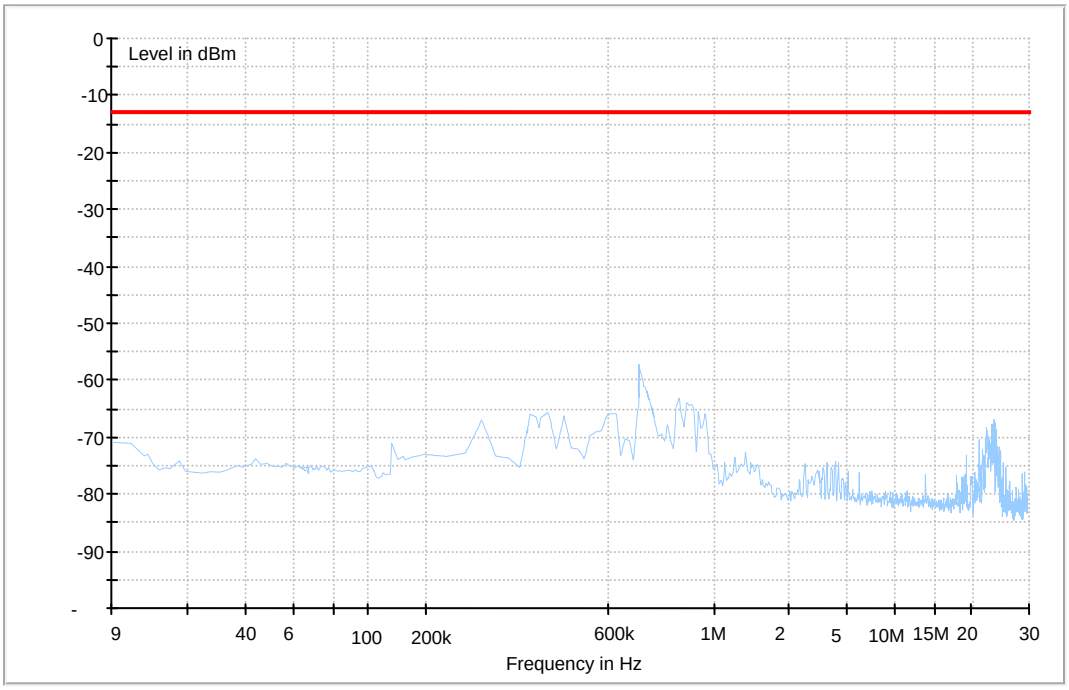
Appendix F

Field Strength of Spurious Emissions

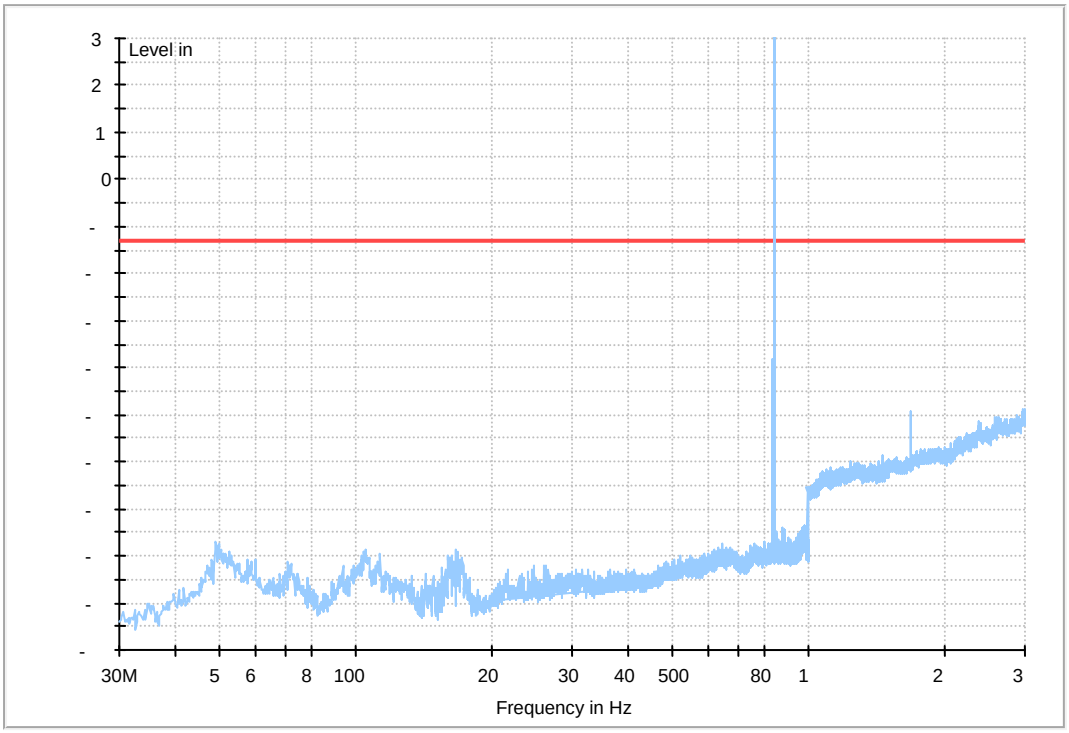
According to FCC Part 2.1053 & Part22.917

GSM 850

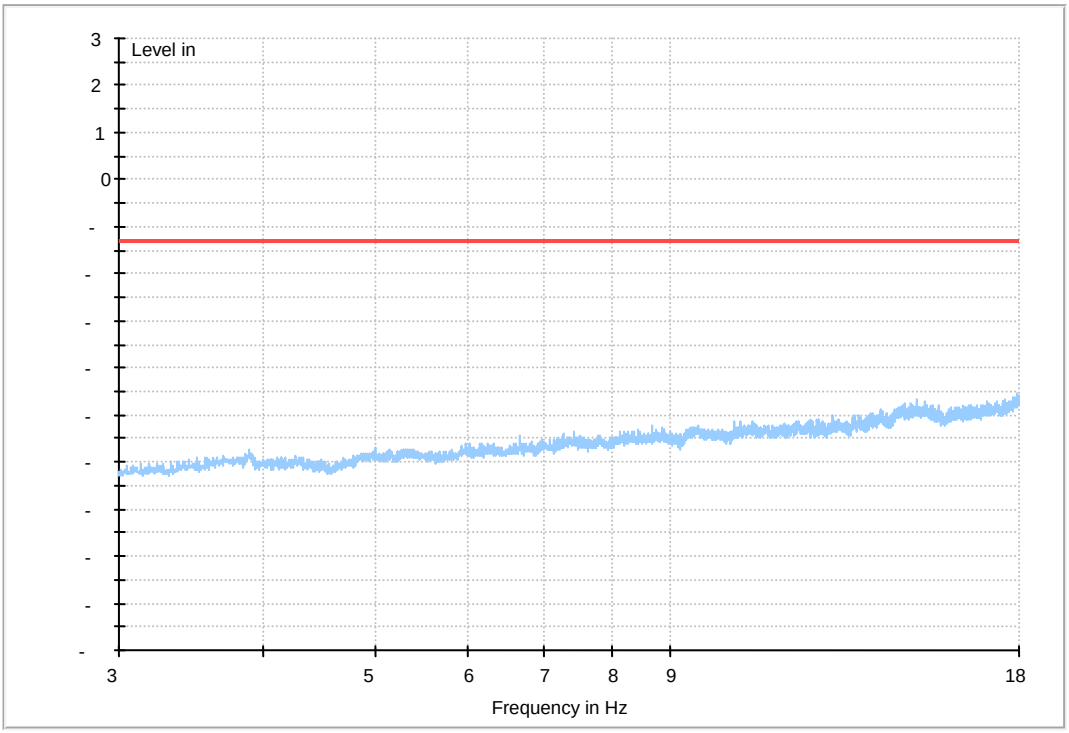
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)

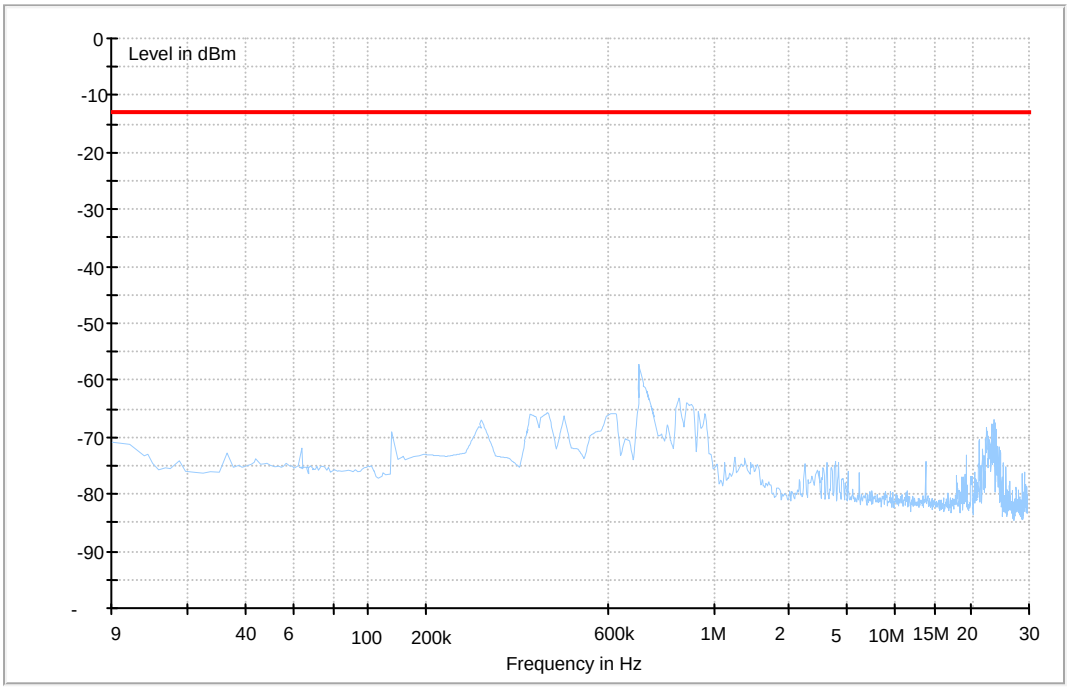


Traffic Mode (3GHz-18GHz)

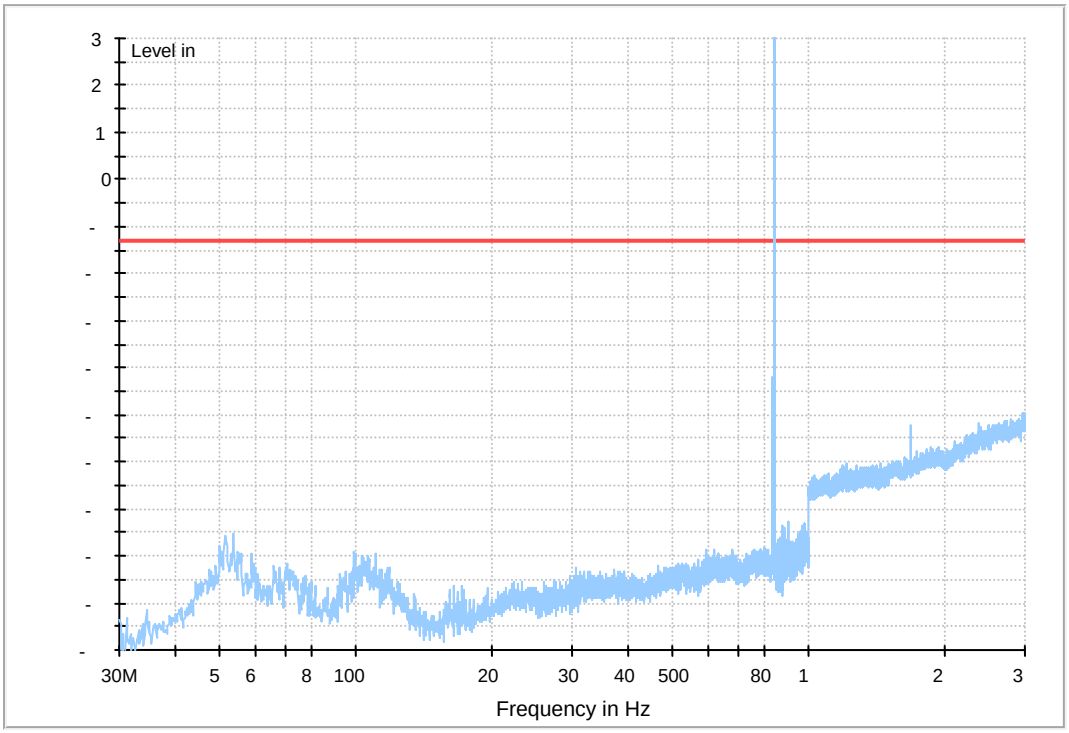


GPRS 850

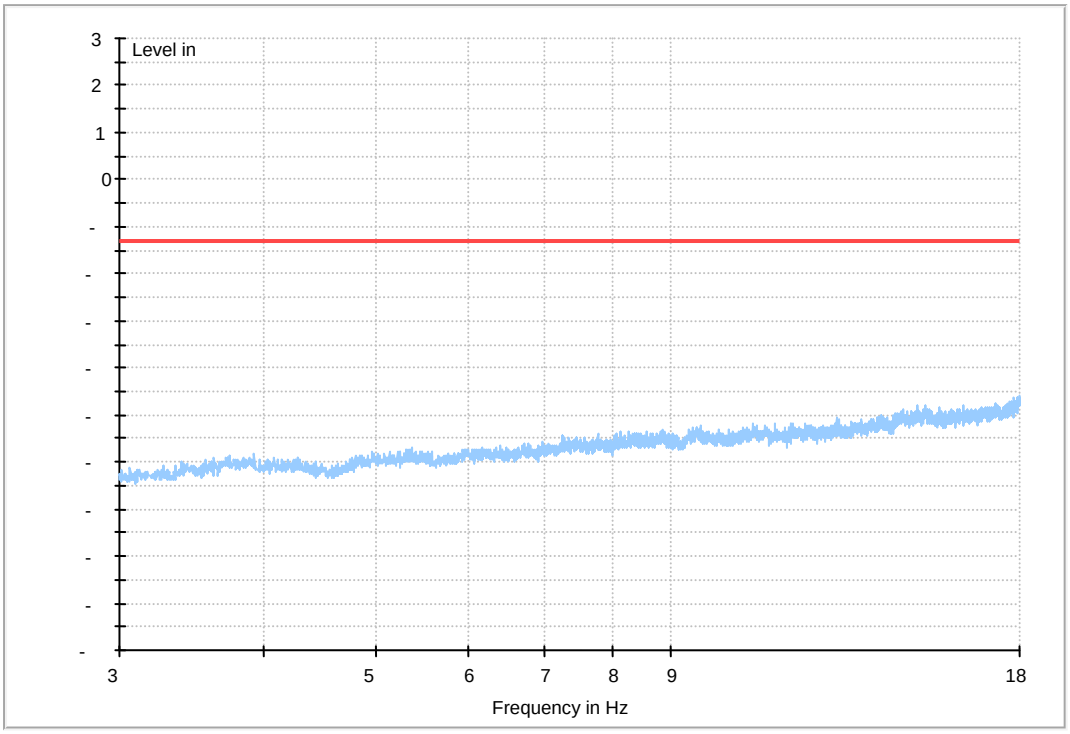
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)

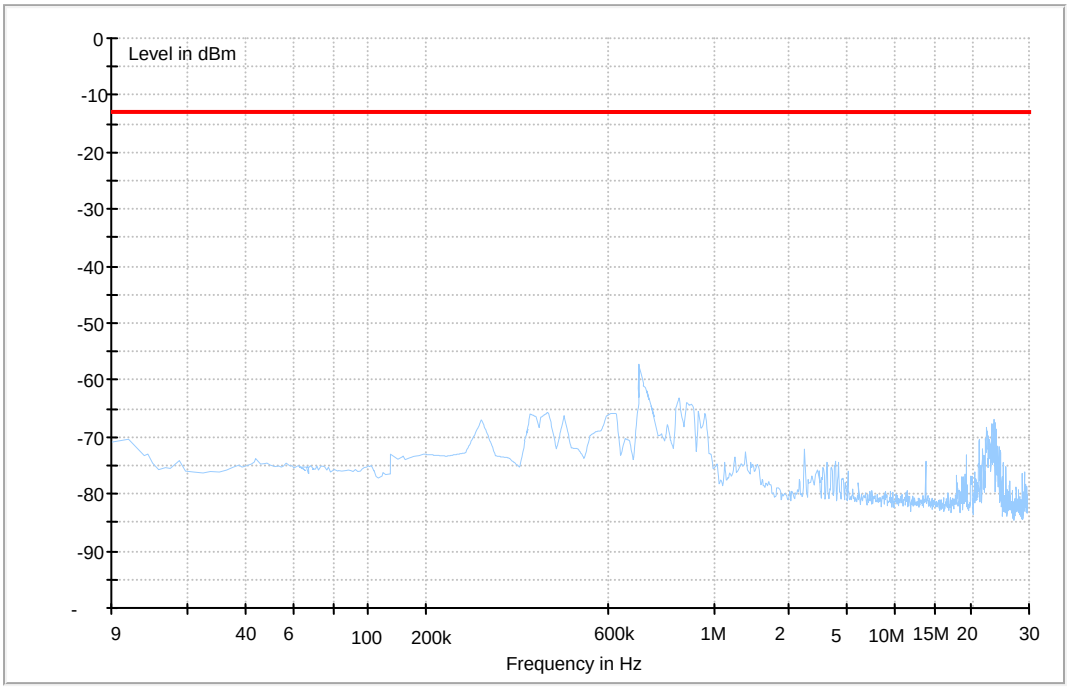


Traffic Mode (3GHz-18GHz)

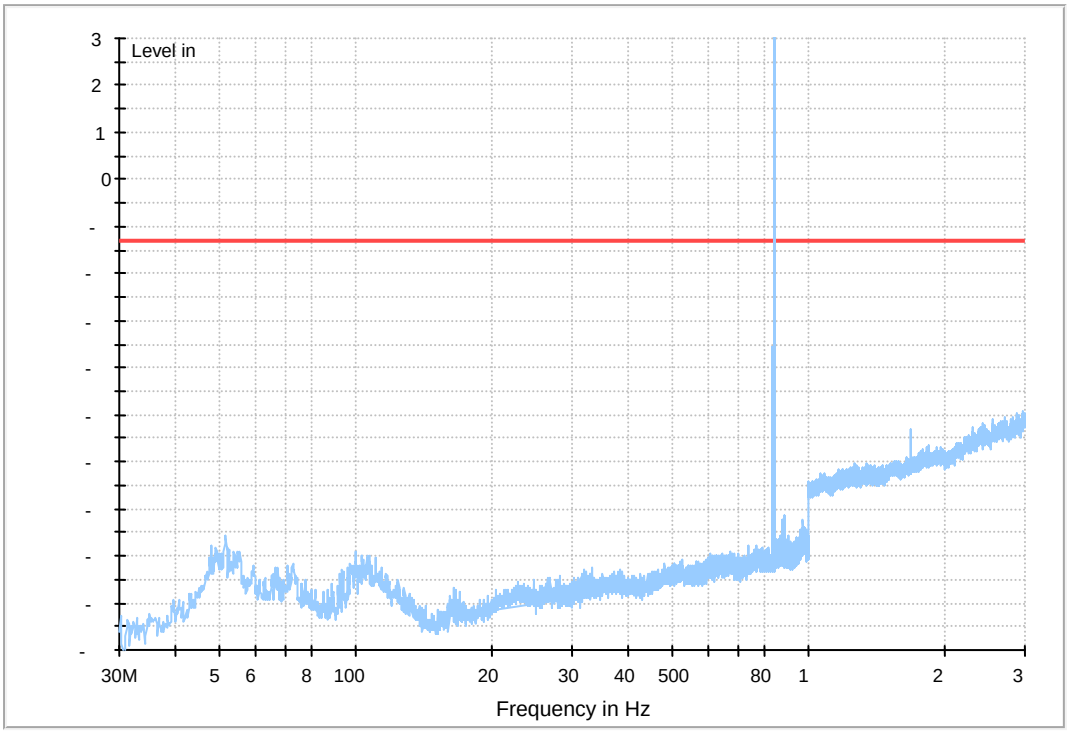


EDGE 850

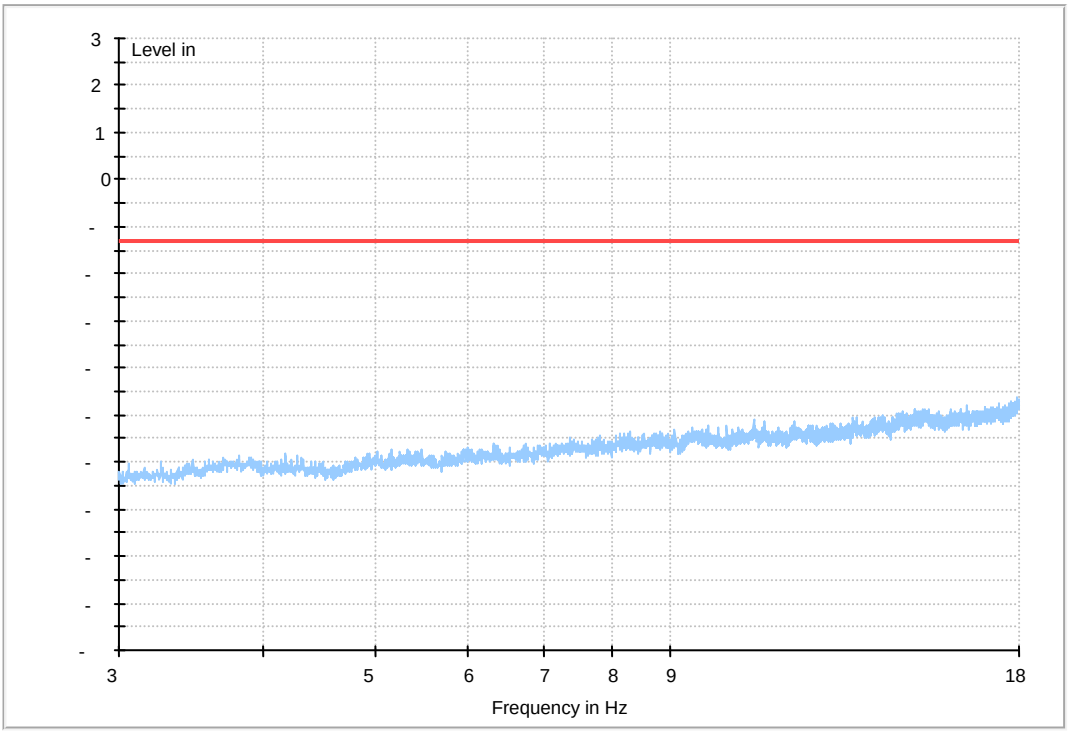
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)

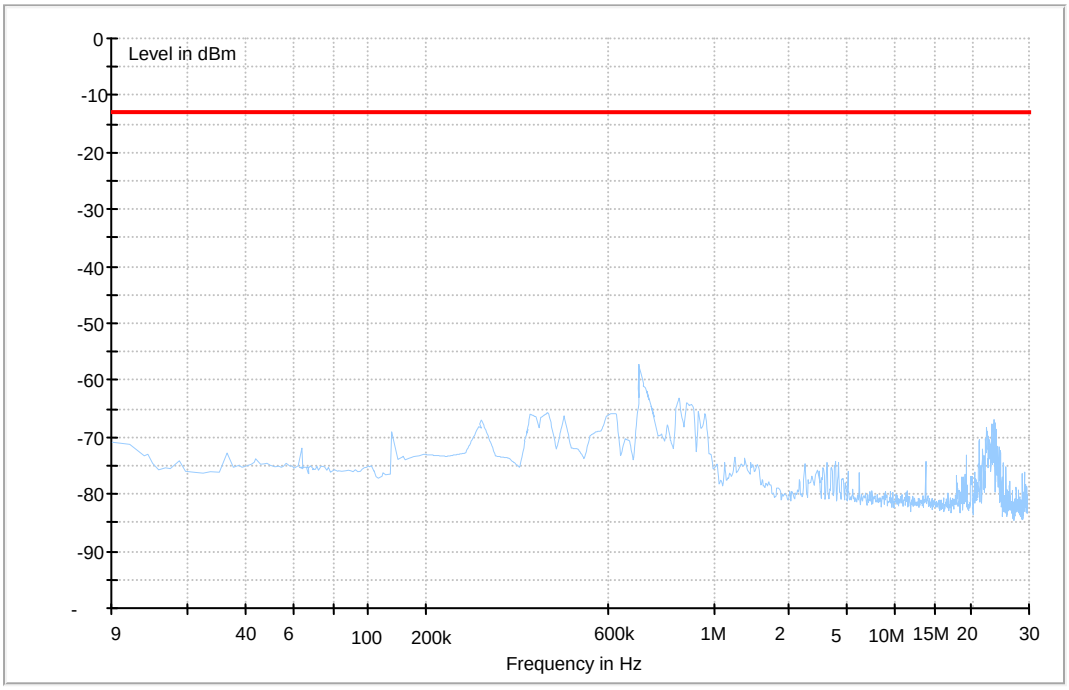


Traffic Mode (3GHz-18GHz)

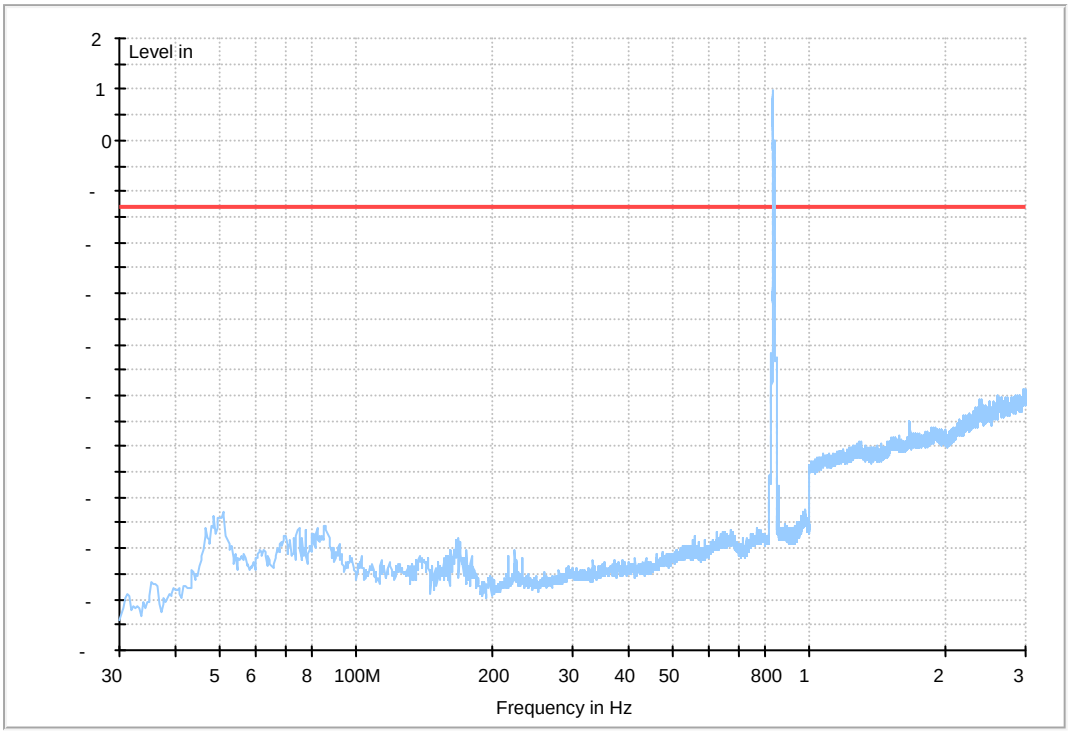


WCDMA 850

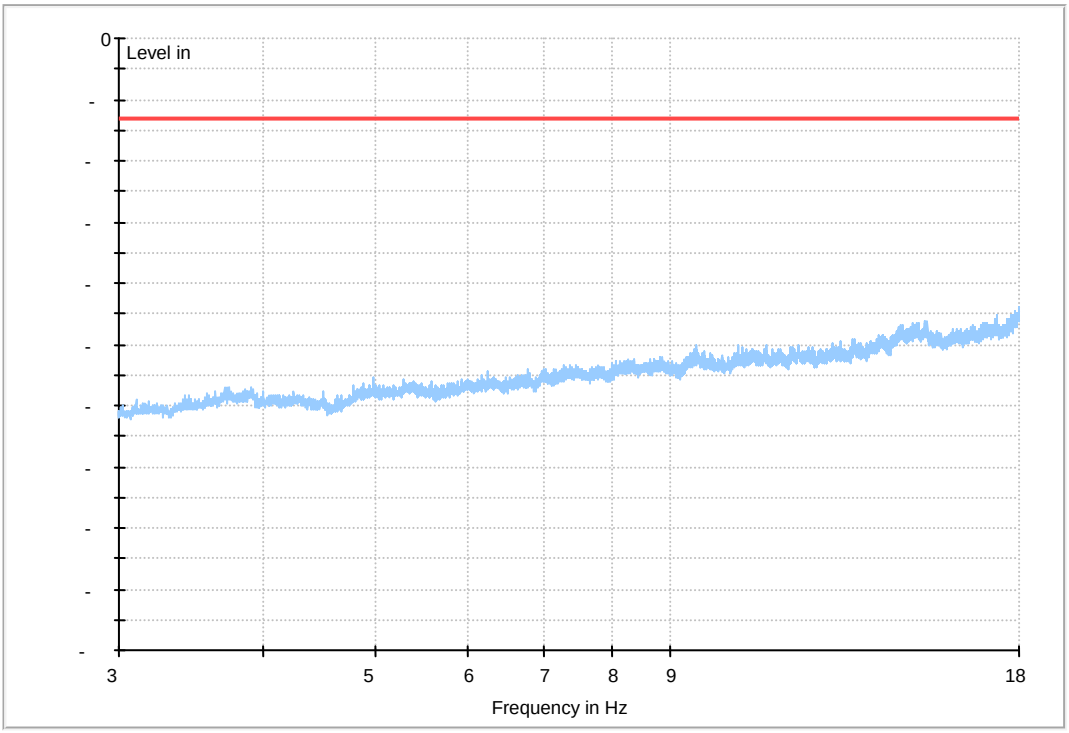
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)

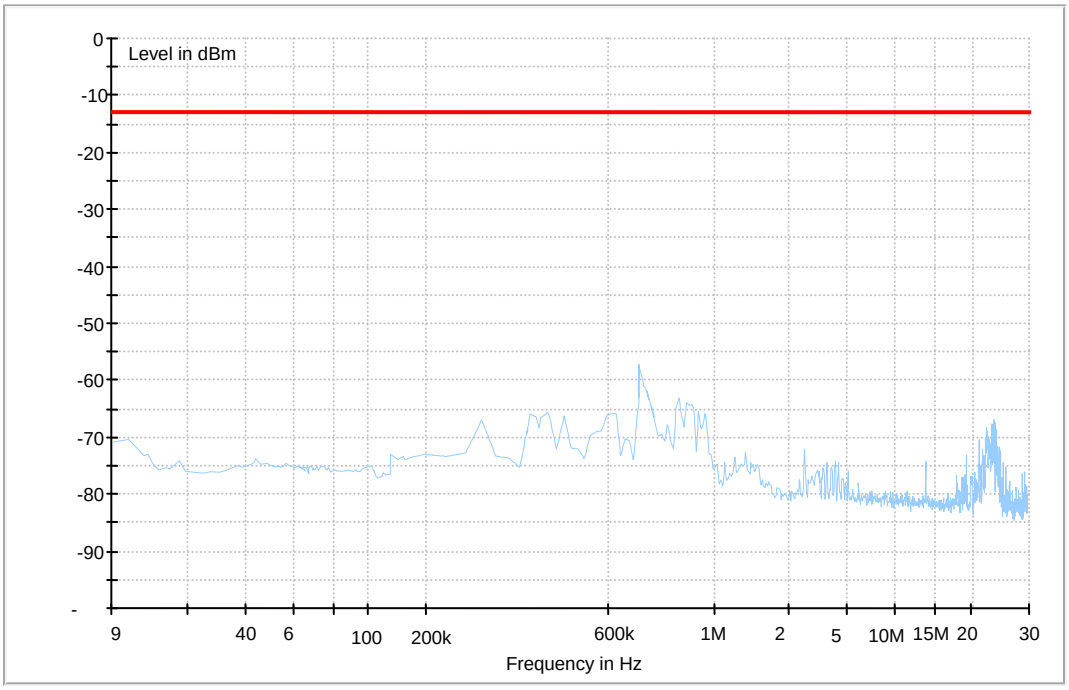


Traffic Mode (3GHz-18GHz)

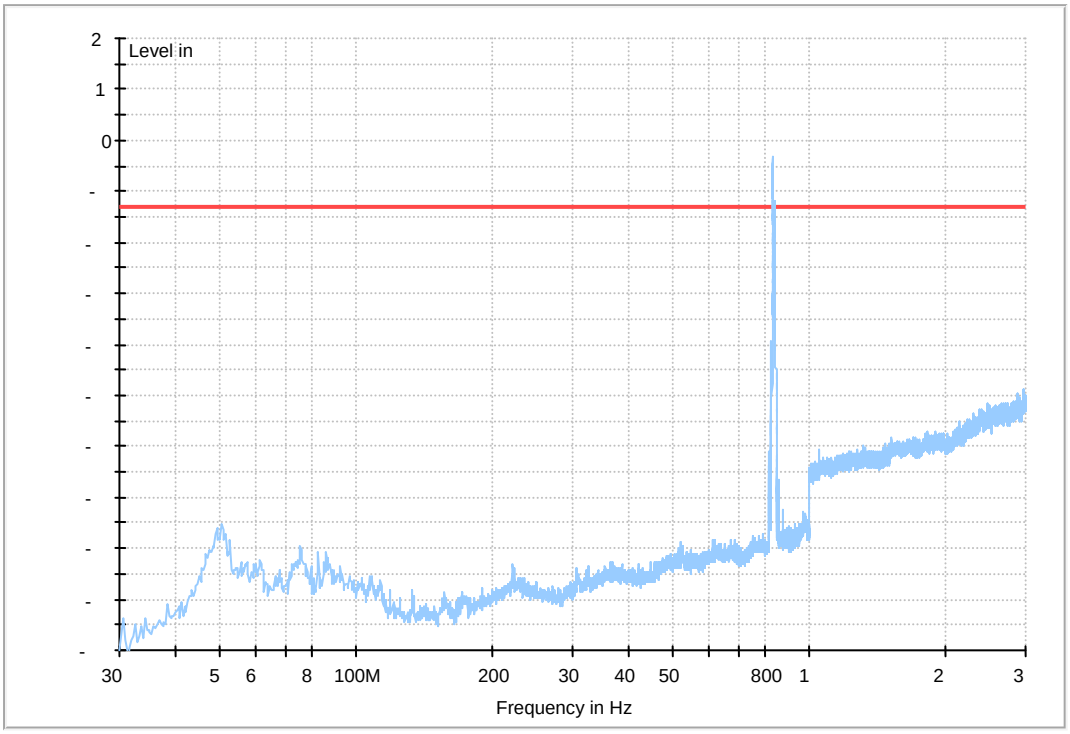


HSDPA 850

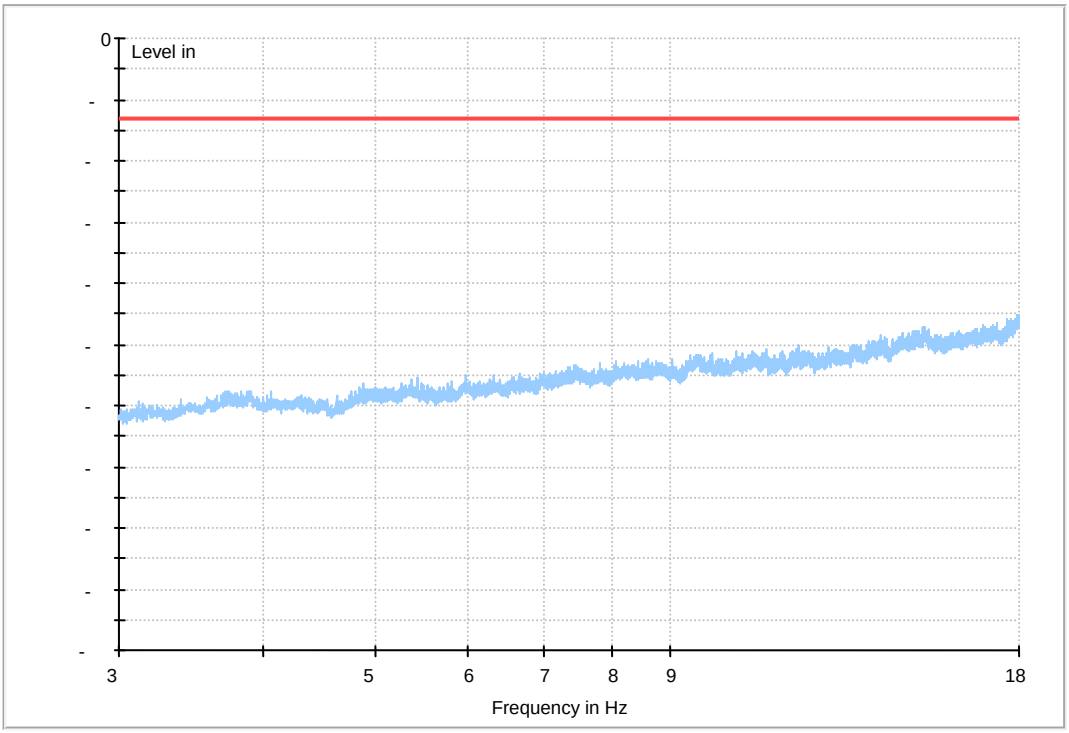
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)

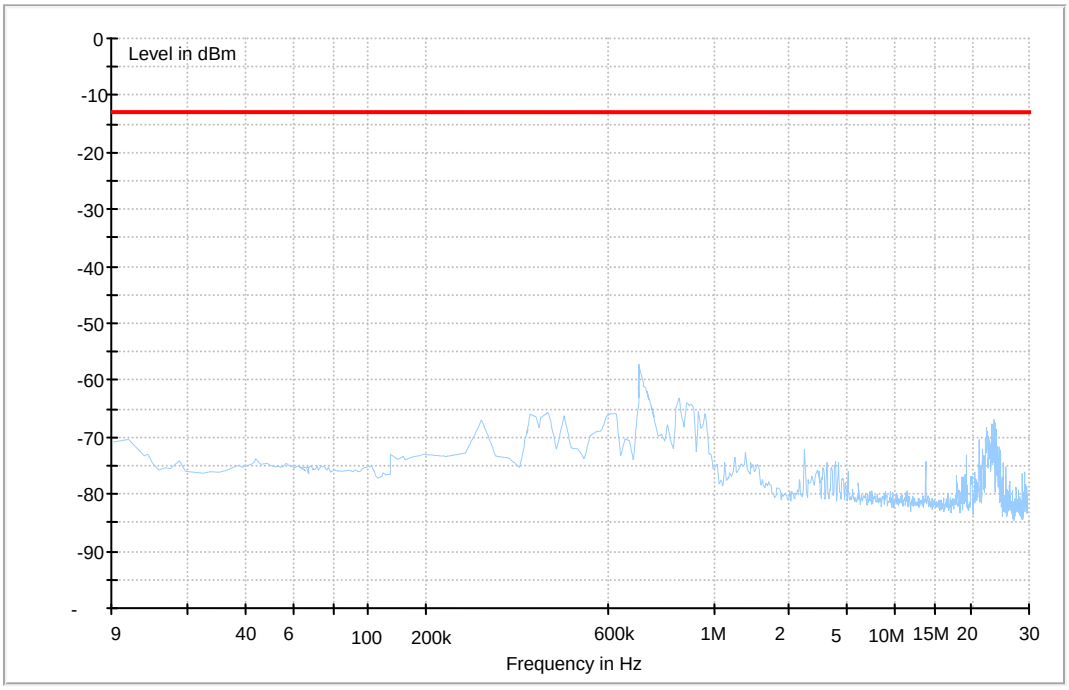


Traffic Mode (3GHz-18GHz)

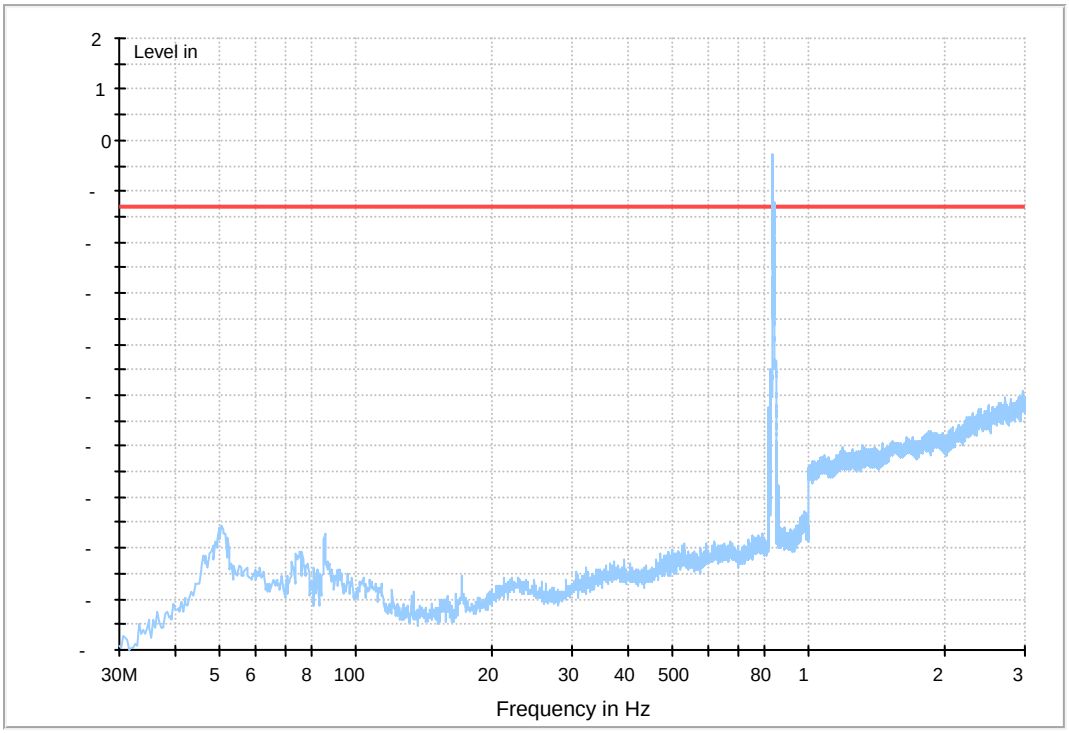


HSUPA 850

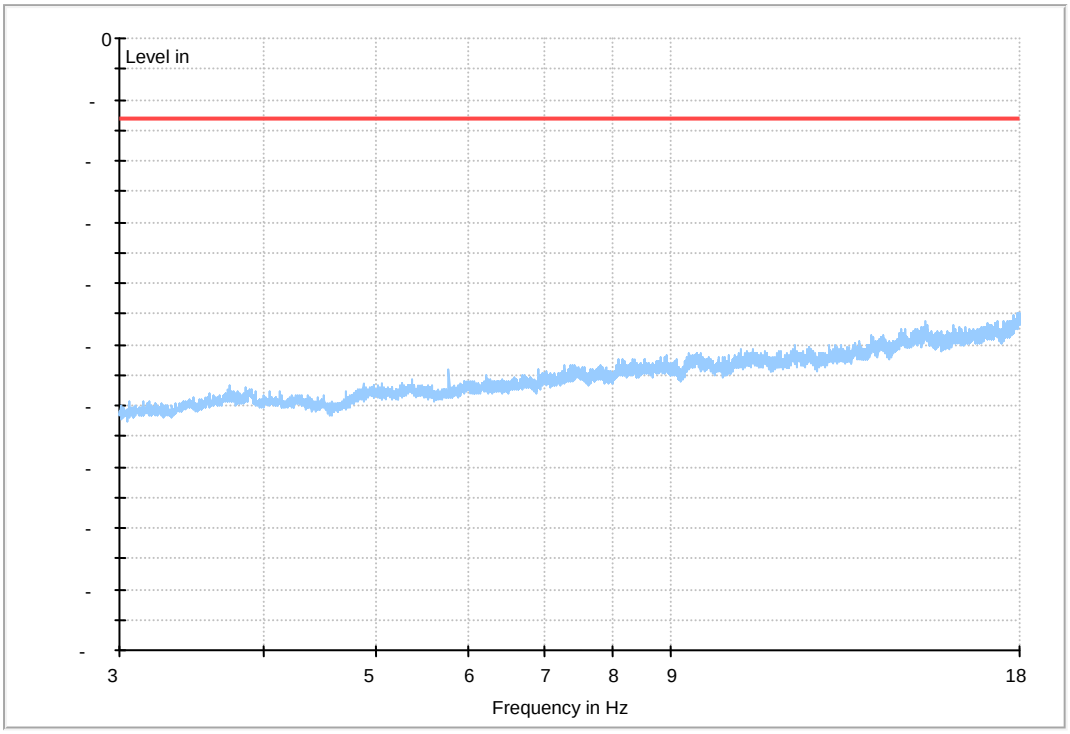
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)



Traffic Mode (3GHz-18GHz)



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Appendix G

Frequency Stability

According to FCC Part 2.1055& Part 22.355

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	-0.0128	---	±2.5	Pass
			-20 °C	15	0.0160	---	±2.5	Pass
			-10 °C	-13	-0.0139	---	±2.5	Pass
			0 °C	-15	-0.0160	---	±2.5	Pass
			10 °C	12	0.0128	---	±2.5	Pass
			20 °C	19	0.0203	---	±2.5	Pass
			30 °C	22	0.0235	---	±2.5	Pass
			40 °C	-17	-0.0181	---	±2.5	Pass
			50 °C	-13	-0.0139	---	±2.5	Pass
TM 2	M	100%	-30 °C	14	0.0149	---	±2.5	Pass
			-20 °C	16	0.0171	---	±2.5	Pass
			-10 °C	12	0.0128	---	±2.5	Pass
			0 °C	15	0.0160	---	±2.5	Pass
			10 °C	-14	-0.0149	---	±2.5	Pass
			20 °C	17	0.0181	---	±2.5	Pass
			30 °C	-9	-0.0096	---	±2.5	Pass
			40 °C	8	0.0085	---	±2.5	Pass
			50 °C	-11	-0.0117	---	±2.5	Pass
TM 3	M	100%	-30 °C	16	0.0191	---	±2.5	Pass
			-20 °C	18	0.0215	---	±2.5	Pass
			-10 °C	10	0.0120	---	±2.5	Pass
			0 °C	-12	-0.0143	---	±2.5	Pass
			10 °C	11	0.0132	---	±2.5	Pass
			20 °C	-10	-0.0120	---	±2.5	Pass
			30 °C	-15	-0.0179	---	±2.5	Pass
			40 °C	-13	-0.0155	---	±2.5	Pass
			50 °C	14	0.0167	---	±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	17	0.0181	---	±2.5	Pass
			VN	9	0.0096	---	±2.5	Pass
			VH	-9	-0.0096	---	±2.5	Pass
TM 2	M	20 °C	VL	15	0.0160	---	±2.5	Pass
			VN	-13	-0.0139	---	±2.5	Pass
			VH	18	0.0192	---	±2.5	Pass
TM 3	M	20 °C	VL	22	0.0263	---	±2.5	Pass
			VN	-15	-0.0179	---	±2.5	Pass
			VH	19	0.0227	---	±2.5	Pass

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