



EUROFINS PRODUCT SERVICE GMBH



Testing Cert 1983.01

TEST - REPORT

**FCC RULES PARTS 22H and 24E and 27C
IC RADIO STANDARDS RSS 132, RSS 133 and RSS-139
for HSDPA + HSUPA**

USB dongle

GI0452

Test report no.: G0M20902-2211-C-3



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1 General information

1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has passed all the relevant tests conforms to a specification.

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems.

The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

The test results of this test report relate exclusively to the item tested as specified in 1.5.

The test report may only be reproduced or published in full.

Reproduction or publication of extracts from the report requires the prior written approval of the EUROFINS PRODUCT SERVICE GMBH.

OPERATOR:

18.03.2009

F. Walter



Date

Eurofins-Lab.

Name

Signature

Technical responsibility for area of testing:

18.03.2009

Thami El Idrissi



Date

Eurofins

Name

Signature

1.2 Testing laboratory

1.2.1 Location

EUROFINS PRODUCT SERVICE GMBH
Storkower Strasse 38c
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1.2.2 Details of accreditation status

DAR ACCREDITED TESTING LABORATORY
DAR-REGISTRATION NUMBER: DAT-P-268/08

RECOGNIZED NOTIFIED BODY EMC
REGISTRATION NUMBER: BNetzA-bS EMV-07/61

RECOGNIZED NOTIFIED BODY R&TTE
REGISTRATION NUMBER: BNetzA-bS-02/51-53

FCC FILED TEST LABORATORY
REG.-No. 96970

A2LA ACCREDITED TESTING LABORATORY
CERTIFICATE No. 1983.01

BLUETOOTH QUALIFICATION TEST FACILITY (BQTF)
ACCREDITED BY BLUETOOTH QUALIFICATION REVIEW BOARD

INDUSTRY CANADA FILED TEST LABORATORY
REG. No. IC 3470

1.3 Details of approval holder

Name	: Option NV
Street	: Gaston Geenslaan 14
Town	: 3001 Leuven
Country	: Belgium
Telephone	: +32 16 311694
Fax	: +32 16 207 164

Contact	: Mr. Thomas Gulinck
E-Mail	: +32 16 311694

1.4 Application details

Date of receipt of application : 09.02.2009
Date of receipt of test item : 09.02.2009
Date of test : 25.06.2008

1.5 Test item

Description of test item : USB dongle
GSM / GPRS / EGPRS 850 / 900 / 1800 / 1900,
UMTS FDD I / II / IV / V, HSDPA; HSUPA,
Type identification : GI0452
Serial number : without
Photos : See annex A.

Technical data

FDD II

Frequency range Tx – PCS 1900 : 1852.4 - 1907.6 MHz
Frequency range Rx – PCS 1900 : 1932.4 - 1987.6 MHz

FDDIV

Frequency range Tx – : 1712.4 - 1752.6 MHz
Frequency range Rx - : 2112.4 – 2152.6 MHz

FDD V

Frequency range Tx – Cellular 850 : 826.4 - 846.6 MHz
Frequency range Rx - Cellular 850 : 871.4 - 891.6 MHz

Antenna Type : internal antenna

	<u>(FDDII)</u>	<u>FCCIV</u>	<u>(FDDV)</u>
Antenna Gain	: 2.5dBi	1.5dBi	1.0dBi

Power supply : 5.0 V DC USB 120V AC/DC Adapter (Laptop)

Operating mode : duplex

Type of modulation : WCDMA (UTRA-FDD)

Emission : F9W

Manufacturer: (if applicable)

Name :
Street :
Town :
Country :

Test Report No.: G0M20902-2211-C-3

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1.6 Test standards

Technical standard : FCC Parts: 22H, 24E, 27C, 2, 15
IC Standards: RSS-132 Issue 2
RSS-133 Issue 5
RSS-139 Issue 2
RSS-Gen Issue 2

Additional information : Because of using HSPA in FDD II and V as an alternative technology in 850 MHz band, not all test cases of FCC Part 22 are required.

This test report covers the test which are related to HSPA radio technology in operating bands II and V only.

Operation in others bands or with other radio technologies are subject of other independent test reports.

2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.



or

The deviations as specified in 2.5 were ascertained in the course of the tests performed.



2.2 Test environment

Temperature : 25°C

Voltage : Unom: 5.0VDC

Relative humidity content : 20 ... 75%

Air pressure : 86 ... 103kPa

2.3 Test equipment utilized

No.	Test equipment	Type	Manufacturer
ETS 0014	Log Periodical Antenna	HL 025	R & S
ETS 0059	Kikusui amplifier	PCR 2000L	Keytek/ EMC
ETS 0085	Shielded room	SR 1	Frankonia
ETS 0251	Climatic chamber	VT 4004	Vötsch
ETS 0281	Spectrum Analyzer	FSM	R & S
ETS 0288	Artificial mains	ESH2-Z5	R & S
ETS 0294	Biconical antenna	HK 116	R & S
ETS 0295	LPD antenna	HL 223	R & S
ETS 0310	Anechoic chamber	AC 3	Frankonia
ETS 0375	Vector Signal Gener.	SMIQ03B	R & S
ETS 0376	Signal Generator	SMP22	R & S
ETS 0378	Advanced Signal Conditioning Unit	ASCU190	R & S
ETS 0379	Advanced Signal Conditioning Unit	ASCU180	R & S
ETS 0380	Advanced Signal Conditioning Unit	ASCU900	R & S
ETS 0382	Vector Signal Gener.	SMIQ03B	R & S
ETS 0383	Spectrum Analyzer	FSU26	R & S
ETS 0384	Main Frame Signal and Conditioning Unit	SSCU-GW	R & S
ETS 0385	Protocol Slave	CRTU-RU (CRTU-G)	R & S
ETS 0386	Power meter	NRVD	R & S
ETS 0390	System PC PC3600	TS-PC36	R & S
ETS 0394	Advanced Signal Conditioning Unit	ASCUFDD-WCDMA	R & S
ETS 0413	Signal Analyzer	FSIQ 26	R & S
ETS 0416	Power Supply	EX752M	TTi
ETS 0473	GSM / UMTS System Simulator	TS 8950	R&S
ETS 0476	EMI Test receiver	ESCS 30	R&S
ETS 0484	Radio Communication Tester	CMU 200	R&S
LU 0001	Radio Communication Tester	CMU 200	R&S

2.4 General test procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.4-2003 5.2 using a 50 μ H LISN (if necessary). Both lines were observed. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

RADIATION INTERFERENCE: The test procedure used was ANSI STANDARD C63.4-2003 6.4 using a spectrum analyzer. The resolution bandwidth of the spectrum analyzer was 100 kHz for measurements below 1 GHz and RBW 1 MHz was used above 1 GHz. The analyzer was calibrated in dB above a microvolt at the output of the antenna.

FORMULA OF CONVERSION FACTORS for Field strength: The Field Strength at 3 m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dB μ V) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB.

Example:

Freq. (MHz)	METER READING + ACF + CABLE LOSS (to the receiver) = FS
33	20 dB μ V + 10.36 dB + 6 dB = 36.36 dB μ V/m @ 3 m

ANSI STANDARD C63.4-2003 6.2.1 MEASUREMENT PROCEDURES: The UUT was placed on a table 80 cm high and with dimensions of 1 m by 1.5 m (non metallic table). The UUT was placed in the center of the table. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to at least 10th harmonic of the fundamental.

Peak readings were taken in three (3) orthogonal planes and the highest readings.

Measurements were made by Eurofins Product Service GmbH at the registered open field test site located at Storkower Str. 38c, 15526 Reichenwalde, Germany.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1 m to 4 m. The antenna was placed in both the horizontal and vertical planes.

ANTENNA & GROUND:

This unit uses internal antennas.

2.5 Test results

☒ 1st test

☐ test after modification

☐ production test

SECT.	TEST CASE	FCC 47 CFR PART	IC RSS	Required	Test passed	Test failed
3	<i>TRANSMITTER PARAMETERS</i>					
3.1	RF power output conducted	2.1046 22.913(a) 24.232(c) 27.50(d)2	Gen 4.8 132 §4.4 133 §6.4 139 §6.4	☒	☒	☐
3.2	RF power output radiated (ERP, EIRP)	2.1046 22.913(a) 24.232(c) 27.50(d)2	Gen 4.8 132 §4.4 133 §6.4 139 §6.4	☒	☒	☐
3.3	Occupied bandwidth	2.1049	Gen §4.6.1	☒	☒	☐
3.3	Emission bandwidth	22.917(b) 24.238(b)	-	☐	☐	☐
3.4	Frequency stability	2.1055 22.355 24.235 27.54	Gen §4.7 132 §4.3 133 §6.3 139 §6.3	☐	☐	☐
3.5	Spurious emission conducted (antenna terminal)	2.1051 22.917 24.238 27.53(h)	Gen §4.9 132 §4.5 133 §6.5 139 §6.5	☐	☐	☐
3.6	Spurious emission radiated	2.1053 22.917 24.238 27.53(h)	Gen §4.9 132 §4.5 133 §6.5 139 §6.5	☐	☐	☐
3.7	Block edge compliance	22.917(b) 24.238(b) 27.53(h)	132 §4.5.1.1 133 §6.5 139 §6.5	☒	☒	☐
3.8	AC power line conducted emissions	15.207	-	☐	☐	☐
4	<i>RECEIVER PARAMETERS</i>					
4.1	Radiated emissions	2.1053 15.109	Gen 4.10 132 §4.6 133 §6.6 139 §6.6	☐	☐	☐

3 Transmitter parameters

3.1 RF power output, conducted

Reference

	FDD II	FDD IV	FDDV
FCC	CFR part 24.232(c), 2.1046	CFR part 27.50 (d) 2.1046	CFR part 22.913(a), 2.1046
IC	RSS-133 §6.4 RSS-Gen 4.8	RSS-139 §6.4 RSS-Gen 4.8	RSS-132 §4.4 RSS-Gen 4.8

Method of measurement

The transmitter output was connected to a calibrated coaxial attenuator, the other end of which was connected to a spectrum analyzer. Transmitter output was read off the spectrum analyzer in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the spectrum analyzer reading.

An HP power meter was also used to measure the RF power.

Tests were performed at three frequencies (low, middle, and high channels) and on all power levels, which can be set-up on the transmitters.

Test method for HSDPA subtests as defined in 3GPP TS 34.121-1 V 8.2.1 (Table C.10.1.4):

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta_{CQI} = 24/15$ with $\beta_{hs} = 24/15 * \beta_c$.

Note 3: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH

Test results

	Channel	Subtest	Peak output power
FDD II HSDPA	9263	1	24.15 dBm
		2	24.48 dBm
		3	24.41 dBm
		4	24.30 dBm
	9400	1	23.70 dBm
		2	23.35 dBm
		3	23.58 dBm
		4	23.57 dBm
	9537	1	23.60 dBm
		2	23.45 dBm
		3	23.57 dBm
		4	23.69 dBm

	Channel	Subtest	Peak output power
FDD IV HSDPA	1313	1	24.40 dBm
		2	24.53 dBm
		3	24.28 dBm
		4	24.48 dBm
	1450	1	24.51 dBm
		2	25.01 dBm
		3	24.69 dBm
		4	24.81 dBm
	1512	1	24.23 dBm
		2	24.00 dBm
		3	23.99 dBm
		4	24.24 dBm

	Channel	Subtest	Peak output power
FDDV HSDPA	4133	1	24.60 dBm
		2	24.77 dBm
		3	24.16 dBm
		4	24.71 dBm
	4175	1	23.83 dBm
		2	23.86 dBm
		3	23.80 dBm
		4	23.69 dBm
	4232	1	24.16 dBm
		2	24.41 dBm
		3	24.39 dBm
		4	24.16 dBm

Test method for HSUPA subtests as defined in 3GPP TS 34.121-1 V 8.2.1 (Table C.11.1.3):

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (Note 5) (Note 6)	β_{ed} (SF)	β_{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 6)	E- TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/25	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$.

Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$.

Note 5: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

Note 6: β_{ed} can not be set directly, it is set by Absolute Grant Value.

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Test results

	Channel	Subtest	Peak output power
FDD II HSUPA	9263	1	25.11 dBm
		2	24.63 dBm
		3	25.23 dBm
		4	24.26 dBm
		5	25.21 dBm
	9400	1	24.41 dBm
		2	23.88 dBm
		3	24.38 dBm
		4	23.44 dBm
		5	24.73 dBm
	9537	1	24.28 dBm
		2	23.94 dBm
		3	24.82 dBm
		4	23.64 dBm
		5	24.75 dBm

	Channel	Subtest	Peak output power
FDDIV HSUPA	1313	1	25.41 dBm
		2	24.88 dBm
		3	25.35 dBm
		4	24.47 dBm
		5	25.92 dBm
	1450	1	25.86 dBm
		2	25.09 dBm
		3	25.85 dBm
		4	24.65 dBm
		5	25.65 dBm
	1512	1	25.05 dBm
		2	24.49 dBm
		3	24.85 dBm
		4	23.95 dBm
		5	25.02 dBm

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	Channel	Subtest	Peak output power
FDDV HSUPA	4133	1	24.80 dBm
		2	24.52 dBm
		3	25.02 dBm
		4	24.03 dBm
		5	25.00 dBm
	4175	1	24.19 dBm
		2	23.36 dBm
		3	23.75 dBm
		4	23.14 dBm
		5	24.45 dBm
	4232	1	24.83 dBm
		2	24.24 dBm
		3	24.75 dBm
		4	23.77 dBm
		5	24.74 dBm

Comment: See attached diagrams in Annex B.

Test equipment: ETS 0413, ETS 0416, ETS 0484; LU 0001,

3.2 RF power output, radiated

Reference

	FDD II	FDD IV	FDD V
FCC	CFR part 24.232(c), 2.1046	CFR part 27.50 (d) 2.1046	CFR part 22.913(a), 2.1046
IC	RSS-133 §6.4 RSS-Gen 4.8	RSS-139 §6.4 RSS-Gen 4.8	RSS-132 §4.4 RSS-Gen 4.8

Method of measurement

The EUT was positioned on a non-conductive turntable, 0.8 m above the ground plane on an open test site. The radiated emission at the fundamental frequency was measured at 3m distance with a test antenna and spectrum analyzer.

Worst case emission was recorded with the rotation of the turntable and the raising and lowering of the test antenna.

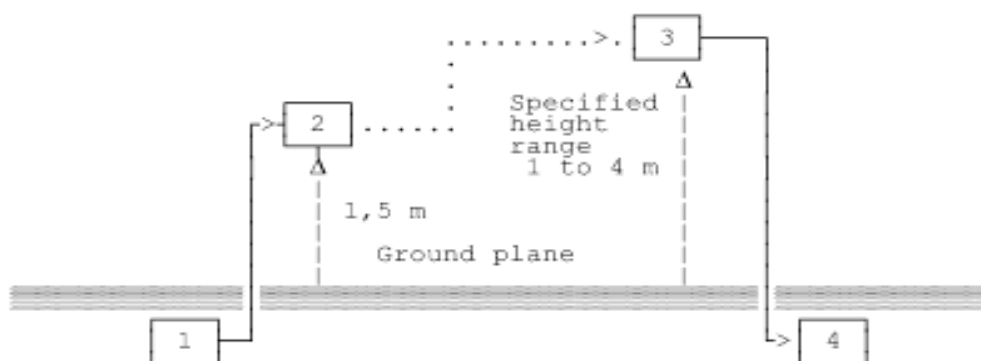
ERP in frequency band 826.6 - 846.4 MHz, and EIRP in frequency band 1852.6 - 1907.4 MHz were measured using a substitution method. The EUT was replaced by half-wave dipole (operating band V) or horn antenna (operating band II) connected to a signal generator.

Substitution RF power measurement at Product Service AG

General:

The applied substitution method follows ANSI/TIA/EIA-603, ANSI/TIA/EIA-102.CAAA or the appropriate ETSI rules respectively.

The actual signal generated by the EUT can be determined by means of a substitution measurement in which a known signal source replaces the device to be measured.



- 1) Signal generator;
- 2) Substitution antenna;
- 3) Test antenna;
- 4) Spectrum analyzer or selective voltmeter.

The substitution antenna replaces the transmitter antenna at the same position and in vertical polarization. The frequency of the signal generator shall be adjusted to the measurement frequency. The test antenna shall be raised or lowered, if necessary, to ensure that the maximum signal is still received. The input signal to the substitution antenna shall be adjusted in level until an equal or a known related level to that detected from the transmitter is obtained in the measurement receiver.

If a fully anechoic chamber is used as test site in order to provide free space conditions there is no need to change the height of the antenna.

The measurement will be repeated in horizontal position.

Calibration:

In order to make this kind of measurement more effective and to avoid subjective measurement faults Eurofins has installed automatic computer controlled measurement procedures.

With the above described substitution method a test site is calibrated over the full frequency range which is used in suitable frequency steps. For a certain power level on the substitution antenna the received power over the whole frequency range is documented. All necessary antenna gains, cable losses, filter losses and amplifications of preamplifiers are taken in consideration. The summary of this calibration measurement performs a transducer factor that is related to the considered test site and a certain measurement distance. Differences of the radiated power levels of different test samples are determined by internal attenuation of the measurement receiver. The proper function of such test site will be maintained by short term plausibility checks and periodical re-calibration.

Testing:

The test sample is put on the table at the defined position and the measurement receiver receives and documents the radiated power. On test sites with ground plane the measurement antenna will be lowered and raised to maximum values at significant frequencies.

For peak power measurements the sample is turned by the turntable over 360 degree in order to find the direction with the maximum radiation or to document the max reading with the MAXHOLD function during the rotation.

Limits

	FDD II	FDD IV	FDD V
FCC	33 dBm (2 Watts), EIRP	30 dBm (1 Watt), EIRP	38,5 dBm (7 Watts), ERP
IC	33 dBm (2 Watts), EIRP	30 dBm (1 Watt), EIRP	38 dBm (6.3 Watts), ERP

Test Results

	Voltage	Frequency channel	Radiated power ERP	Radiated power EIRP
FDD II HSDPA	U _{nom}	9263	--	22.28 dBm
		9400	--	22.78 dBm
		9537	--	22.77 dBm
FDD IV HSDPA	U _{nom}	1313	--	22.18 dBm
		1450	--	22.14 dBm
		1512	--	21.55 dBm
FDD V HSDPA	U _{nom}	4133	23.10 dBm	--
		4175	22.78 dBm	--
		4232	24.03 dBm	--
FDD II HSUPA	U _{nom}	9263	--	20.98
		9400	--	21.47
		9537	--	21.78
FDD IV HSUPA	U _{nom}	1313	--	20.99
		1450	--	21.36
		1512	--	21.34
FDD V HSUPA	U _{nom}	4133	23.33	--
		4175	22.66	--
		4232	23.15	--

Test equipment: ETS 0014, ETS 0281, ETS 0295, ETS 0310, ETS 0416, ETS 0484

3.3 Occupied bandwidth, emission bandwidth

Reference

	FDD II	FDD IV	FDD V
FCC	CFR part 24.238(b), 2.1049	2.1049	CFR part 22.917(b), 2.1049
IC	RSS-Gen §4.6.1	RSS-Gen §4.6.1	RSS-Gen §4.6.1

Method of measurement

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power.

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

The RF output of the transceiver was connected to the input of the spectrum analyzer through sufficient attenuation.

Occupied Bandwidth was measured with a occupied bandwidth function of the analyzer.

To find the Emission Bandwidth (-26 dB) the delta markers were set -26 dB below transmitter power.

Test results

	Frequency channel	Occupied bandwidth MHz
FDDII HSDPA	9263	4.168
	9400	4.188
	9537	4.188
FDDIV HSDPA	1313	4.188
	1450	4.228
	1512	4.188
FDDV HSDPA	4133	4.208
	4175	4.168
	4232	4.188

	Frequency channel	Occupied bandwidth MHz
FDDII HSUPA	9263	4.168
	9400	4.188
	9537	4.188
FDDIV HSUPA	1313	4.208
	1450	4.208
	1512	4.188
FDDV HSUPA	4133	4.208
	4175	4.188
	4232	4.188

Comment: See attached diagrams in Annex C.

Test equipment: ETS 0413, ETS 0416, ETS 0484; ; LU 0001

3.4 Block edge compliance

Reference

	FDD II	FDDIV	FDD V
FCC	CFR part 24.238(b)	CFR §27.53(h)	CFR part 22.917(b)
IC	RSS-133 §6.5	RSS-139 §6.5	RSS-132 §4.5.1.1

Method of measurement

In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth.

Limits

	FDD II	FDD IV	FDD V
FCC	$P_c - (43 + 10 \log(P) \text{ dB})$	$P_c - (43 + 10 \log(P) \text{ dB})$	$P_c - (43 + 10 \log(P) \text{ dB})$
IC	$P_c - (43 + 10 \log(P) \text{ dB})$	$P_c - (43 + 10 \log(P) \text{ dB})$	$P_c - (43 + 10 \log(P) \text{ dB})$

Test results

	Frequency channel	RBW kHz	Worst case emission level dBm
FDDII HSDPA	9263	3 kHz	23.99
	9537	3 kHz	23.64
FDDIV HSDPA	1313	3 kHz	24.74
	1512	3 kHz	24.10
FDDV HSDPA	4133	3 kHz	24.43
	4332	3 kHz	24.32

	Frequency channel	RBW kHz	Worst case emission level dBm
FDDII HSUPA	9263	3 kHz	25.15
	9537	3 kHz	24.31
FDDIV HSUPA	1313	3 kHz	25.65
	1512	3 kHz	25.16
FDDV HSDPA	4133	3 kHz	24.99
	4332	3 kHz	24.78

Comment: See attached diagrams in Annex D.

Test equipment: ETS 0413, ETS 0416, ETS 0484; LU 0001

ANNEX

A	Pictures	23
B	RF power output conducted	34
C	Occupied bandwidth, emission bandwidth	116
D	Block edge compliance	135

Annex A

Pictures



Test Report No.: G0M20902-2211-C-3

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany



Test Report No.: G0M20902-2211-C-3

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany



Test Report No.: G0M20902-2211-C-3

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany



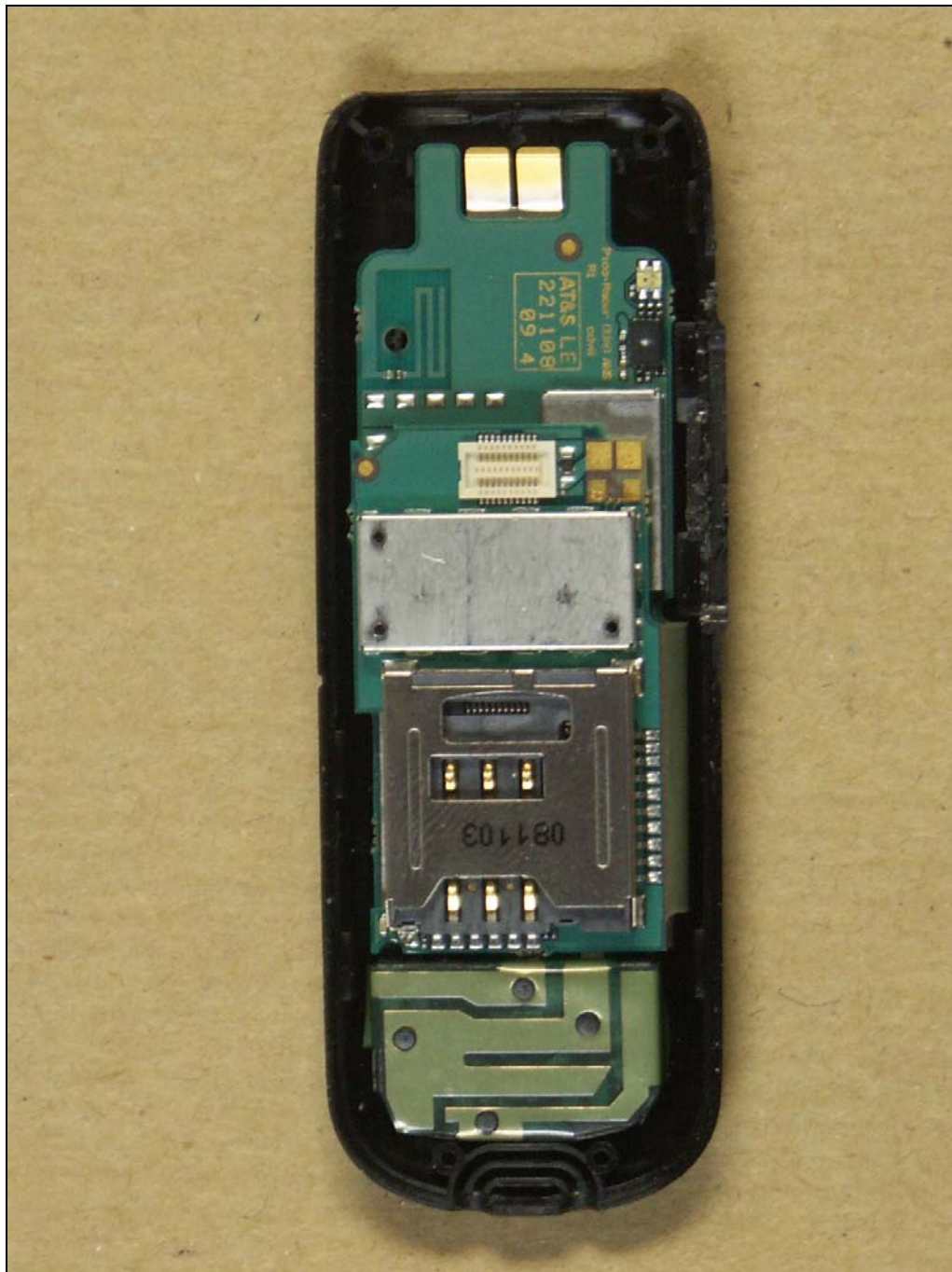
Test Report No.: G0M20902-2211-C-3

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany



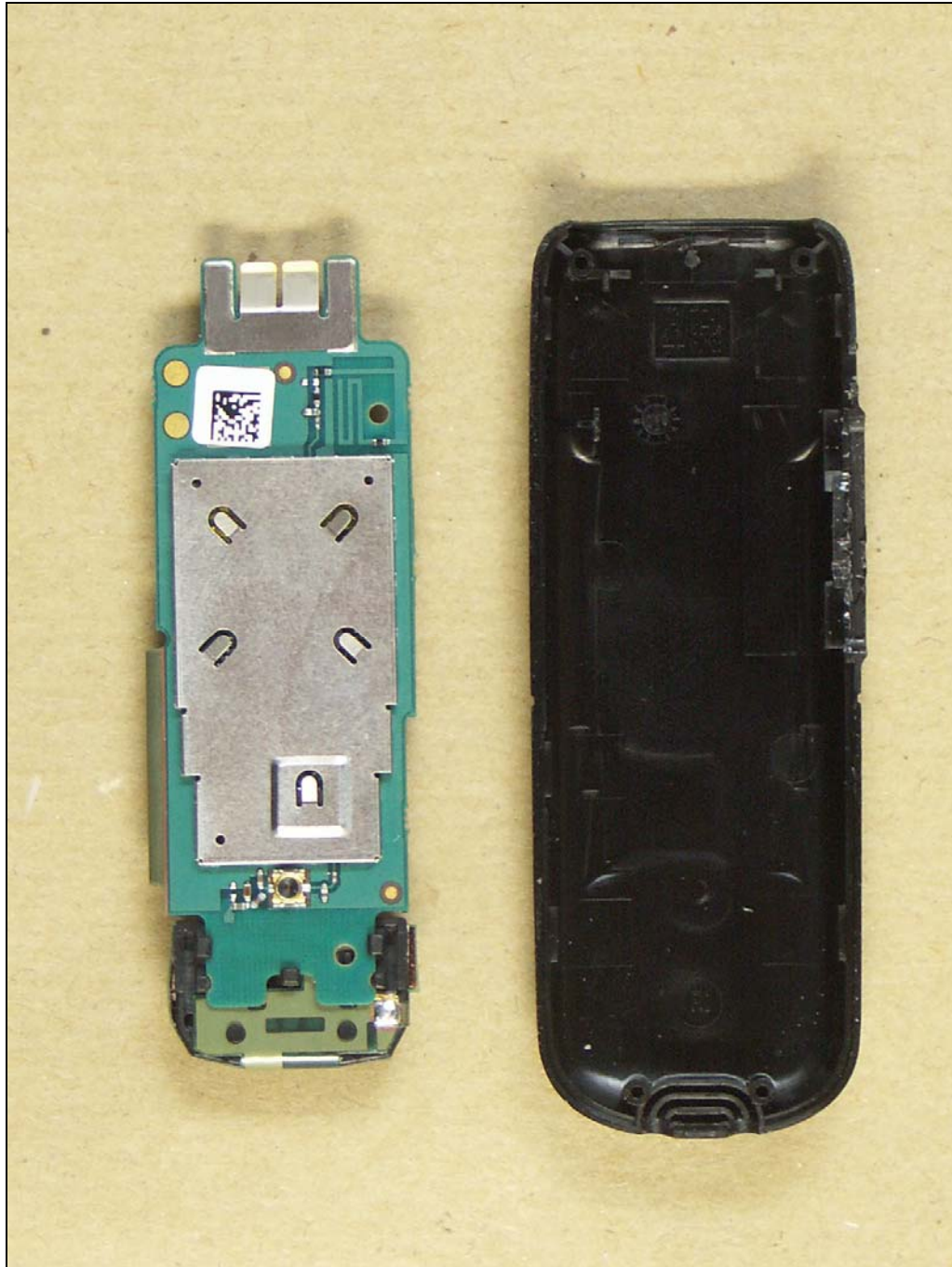
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Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany



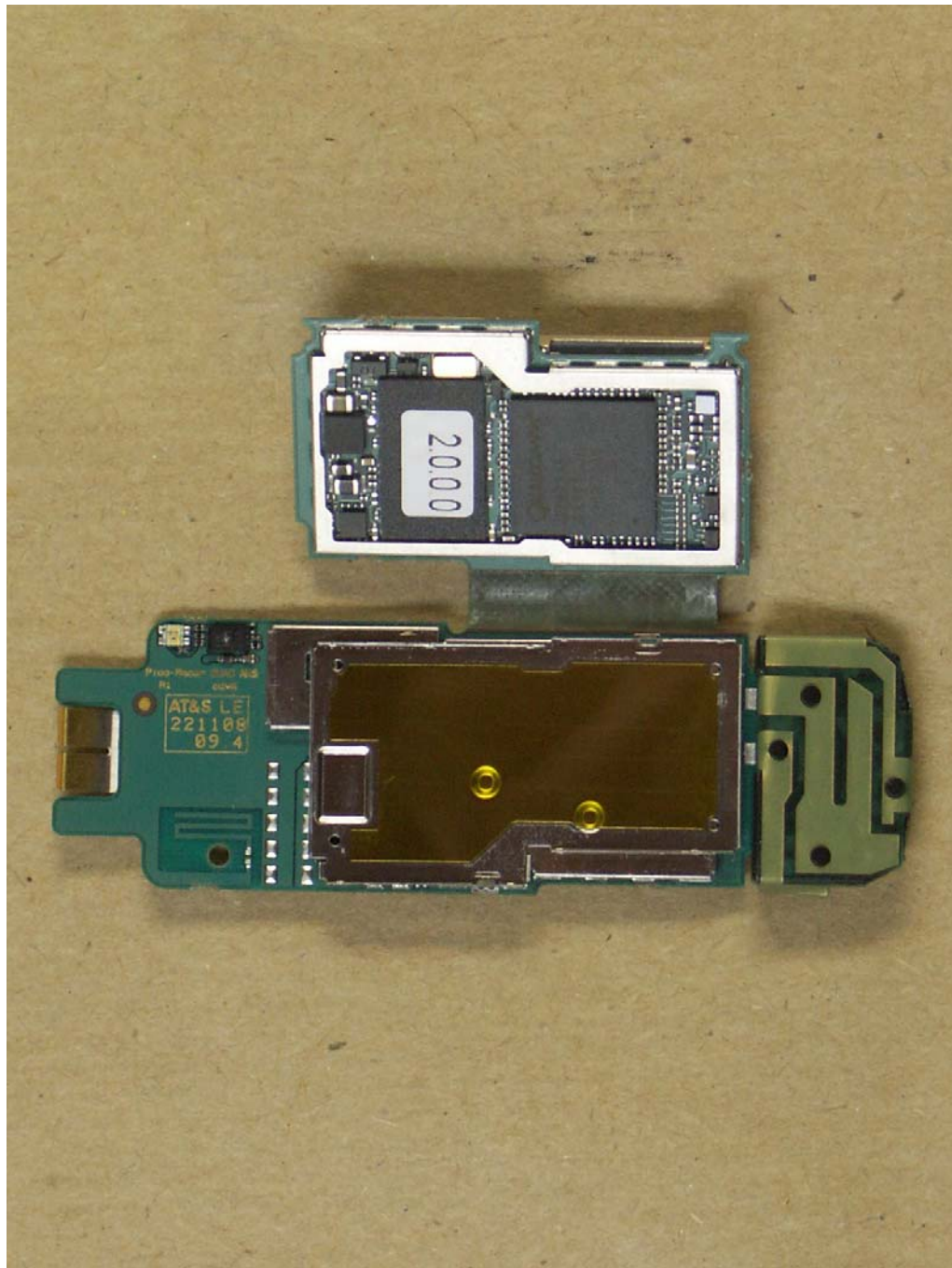
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Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany



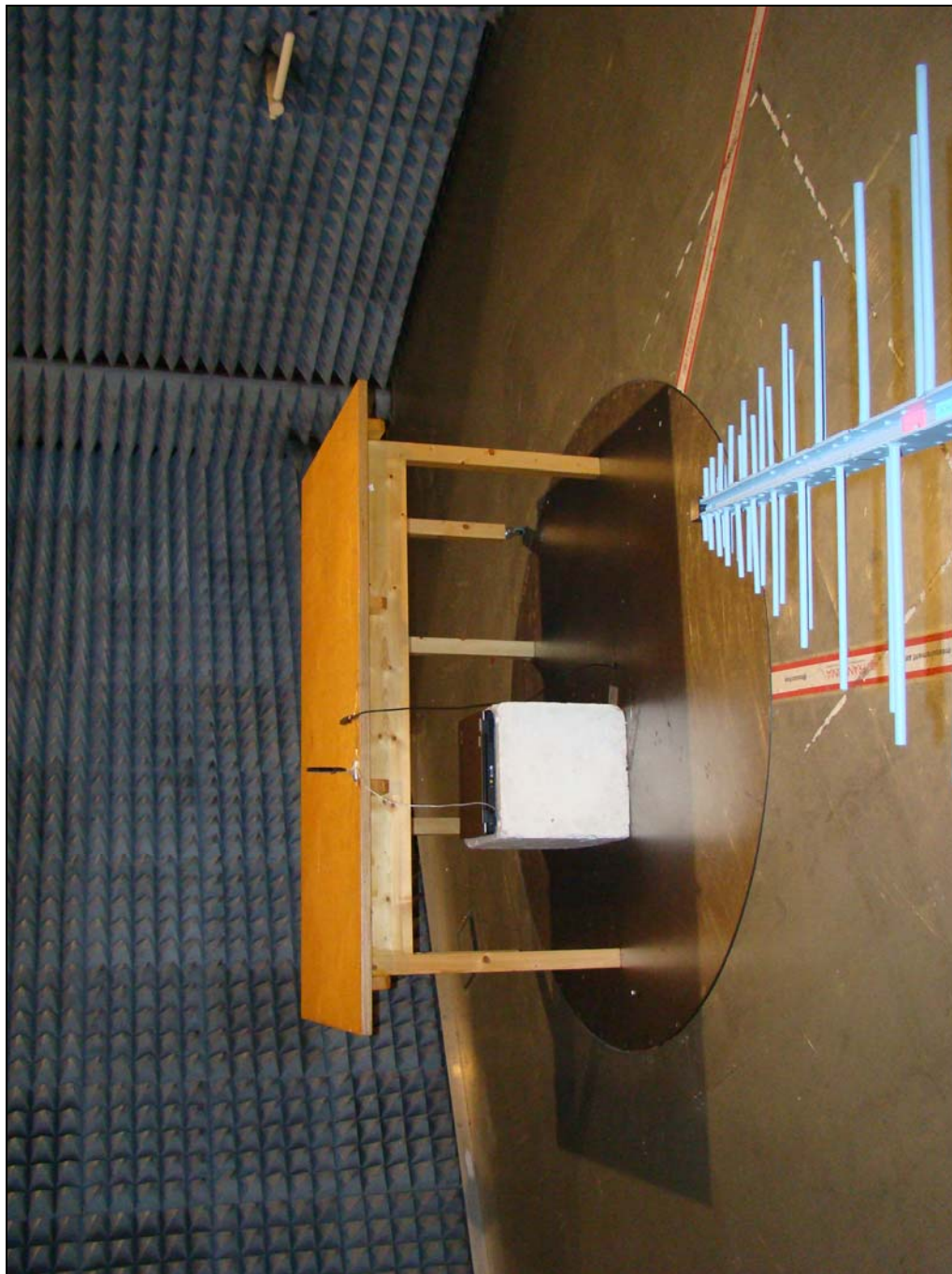
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Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany



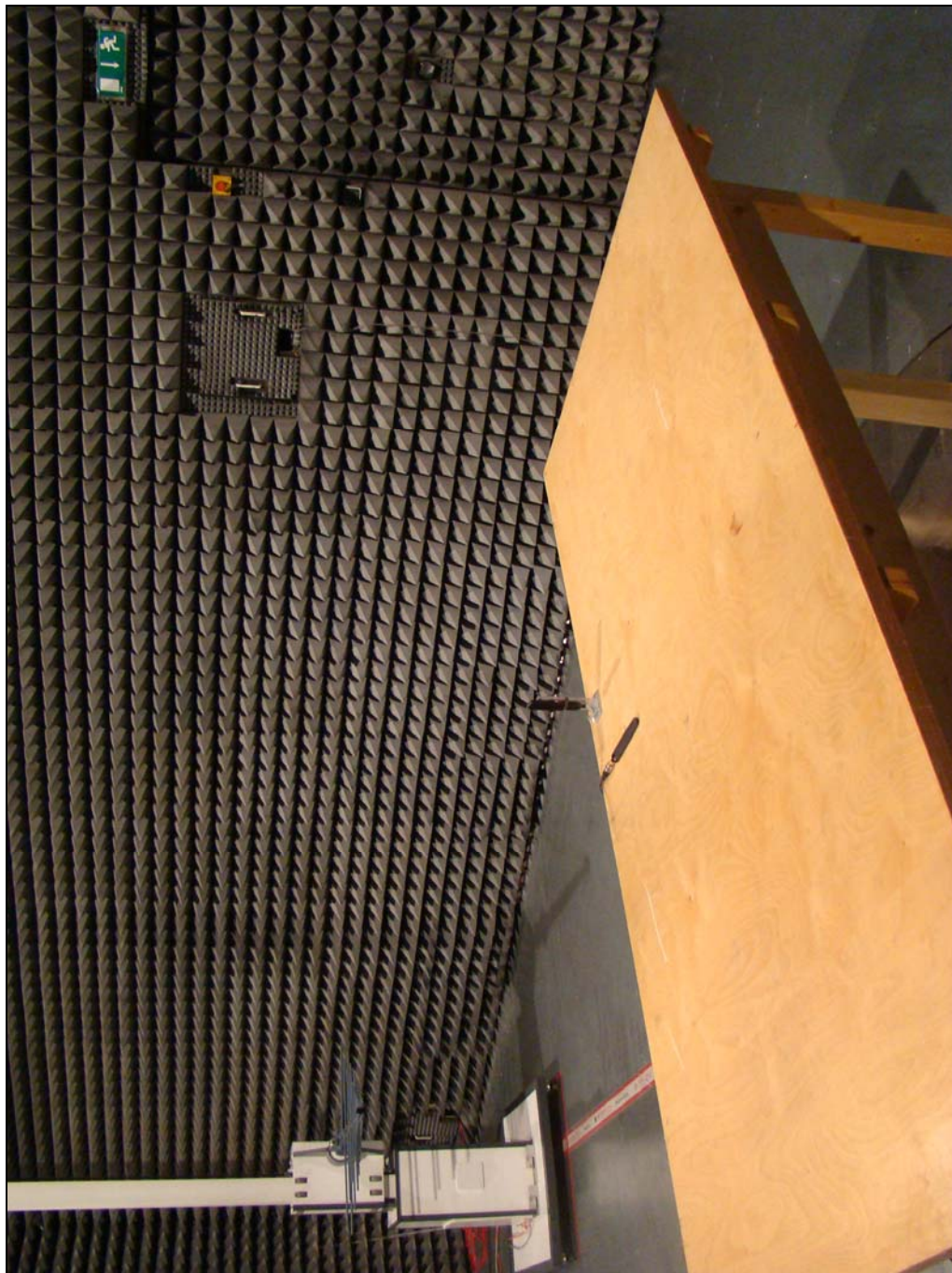
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Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany



Test Report No.: G0M20902-2211-C-3

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Test Report No.: G0M20902-2211-C-3

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany



Test Report No.: G0M20902-2211-C-3

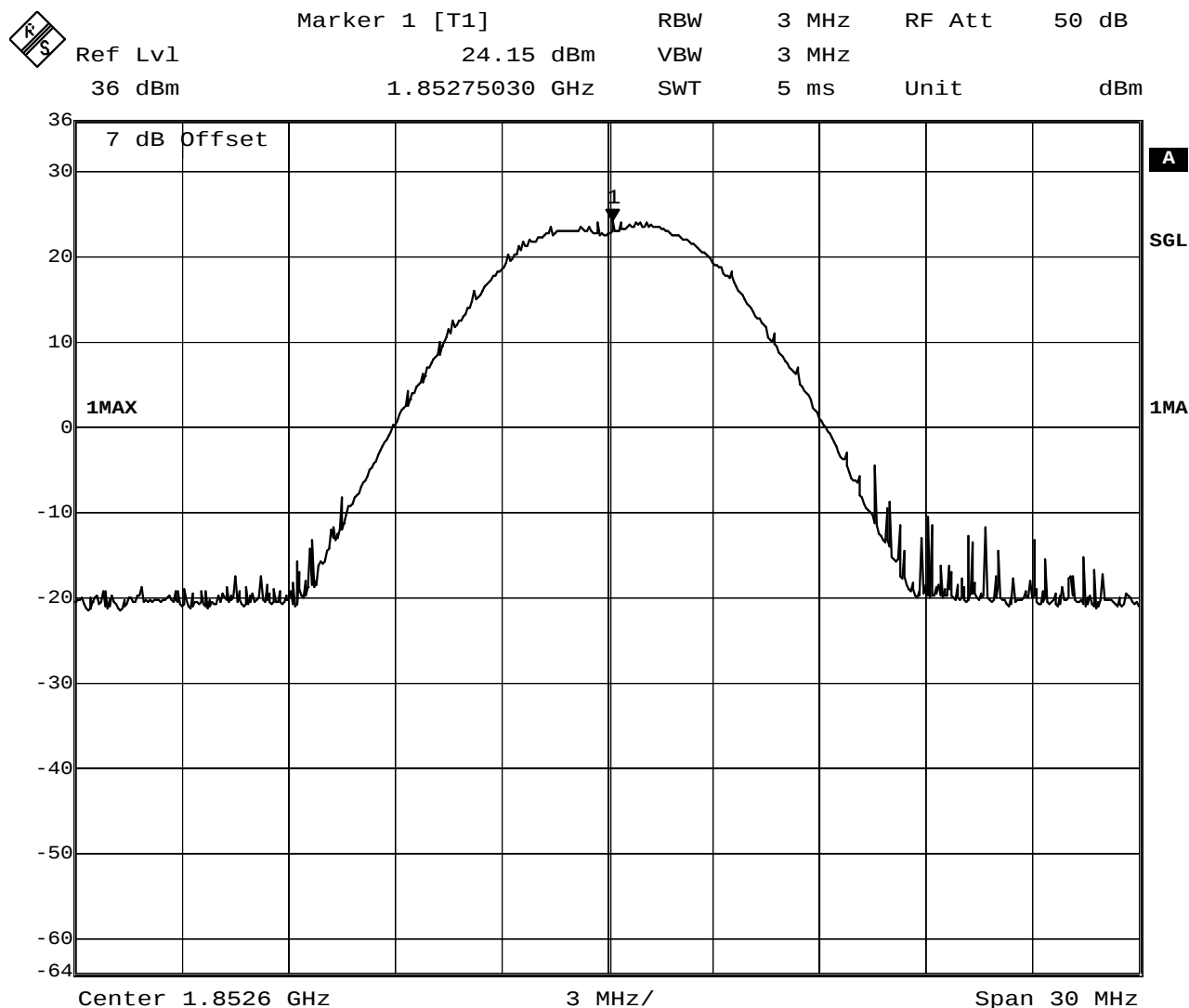
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Annex B

RF power output conducted

FCC Part 24 E
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9263
Comment 2	HSDPA subtest 1
Comment 3	



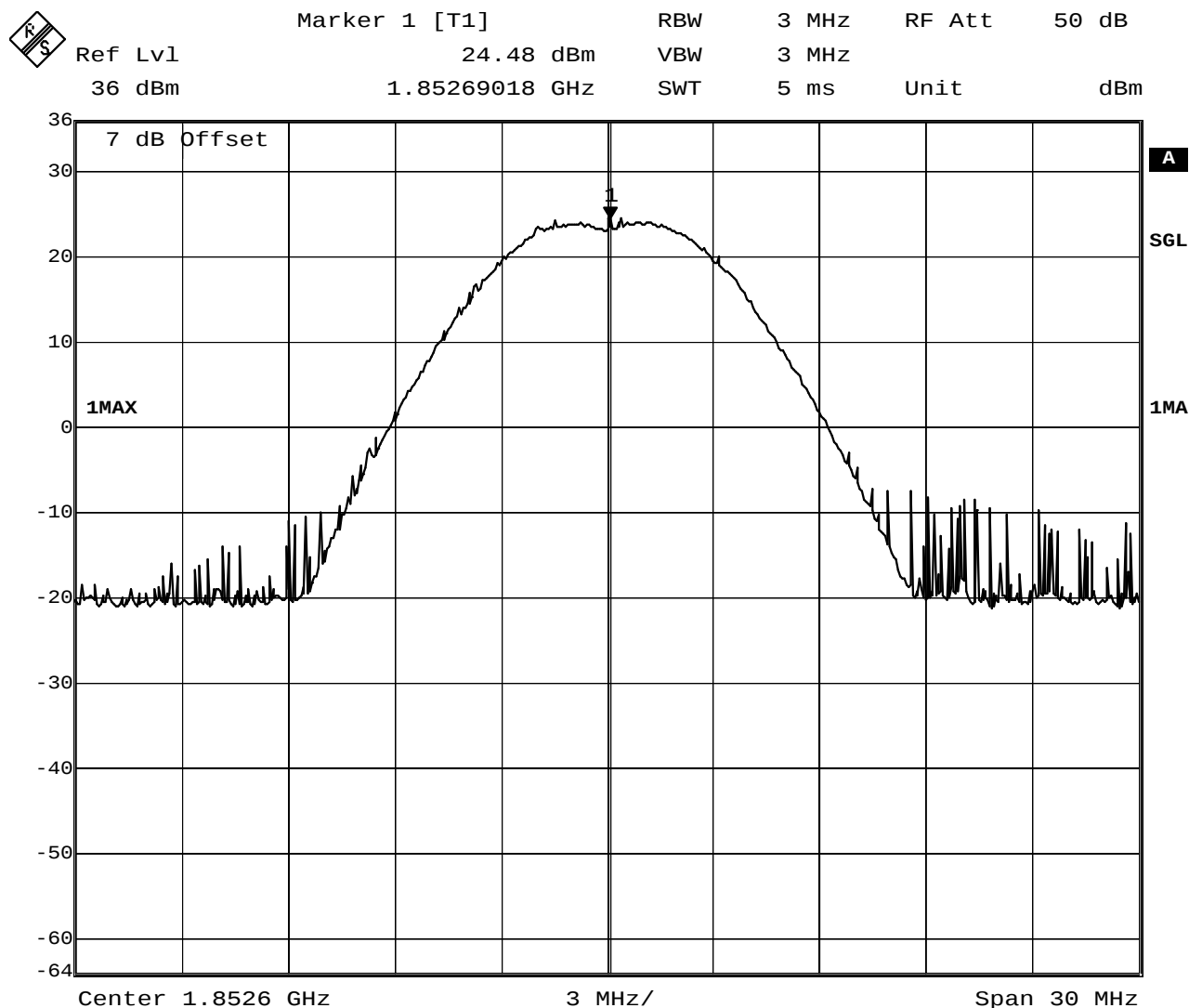
Date: 18.FEB.2009 15:43:51

Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9263
Comment 2	HSDPA subtest 2
Comment 3	



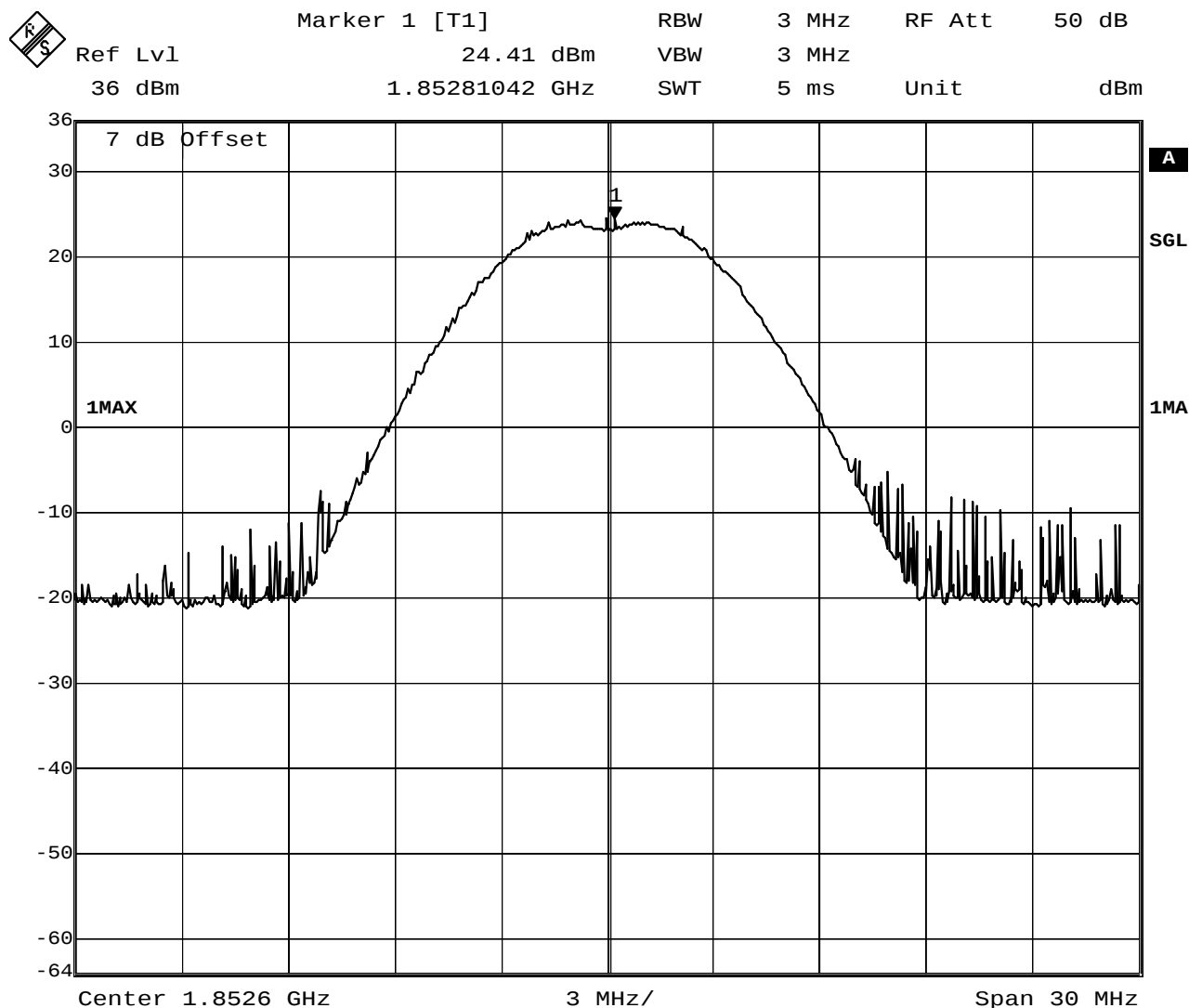
Date: 18.FEB.2009 16:01:01

Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9263
Comment 2	HSDPA subtest 3
Comment 3	



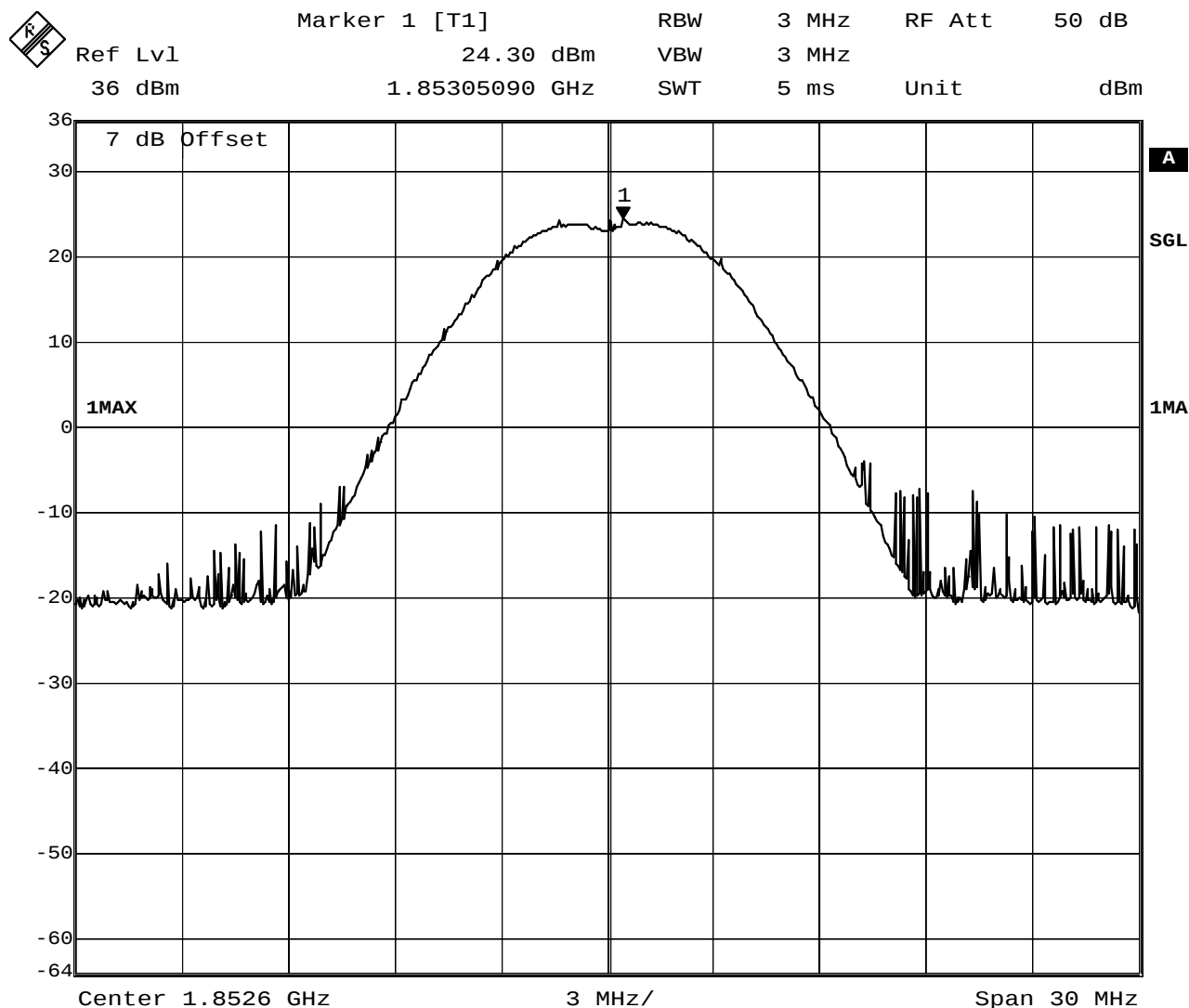
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Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9263
Comment 2	HSDPA subtest 4
Comment 3	



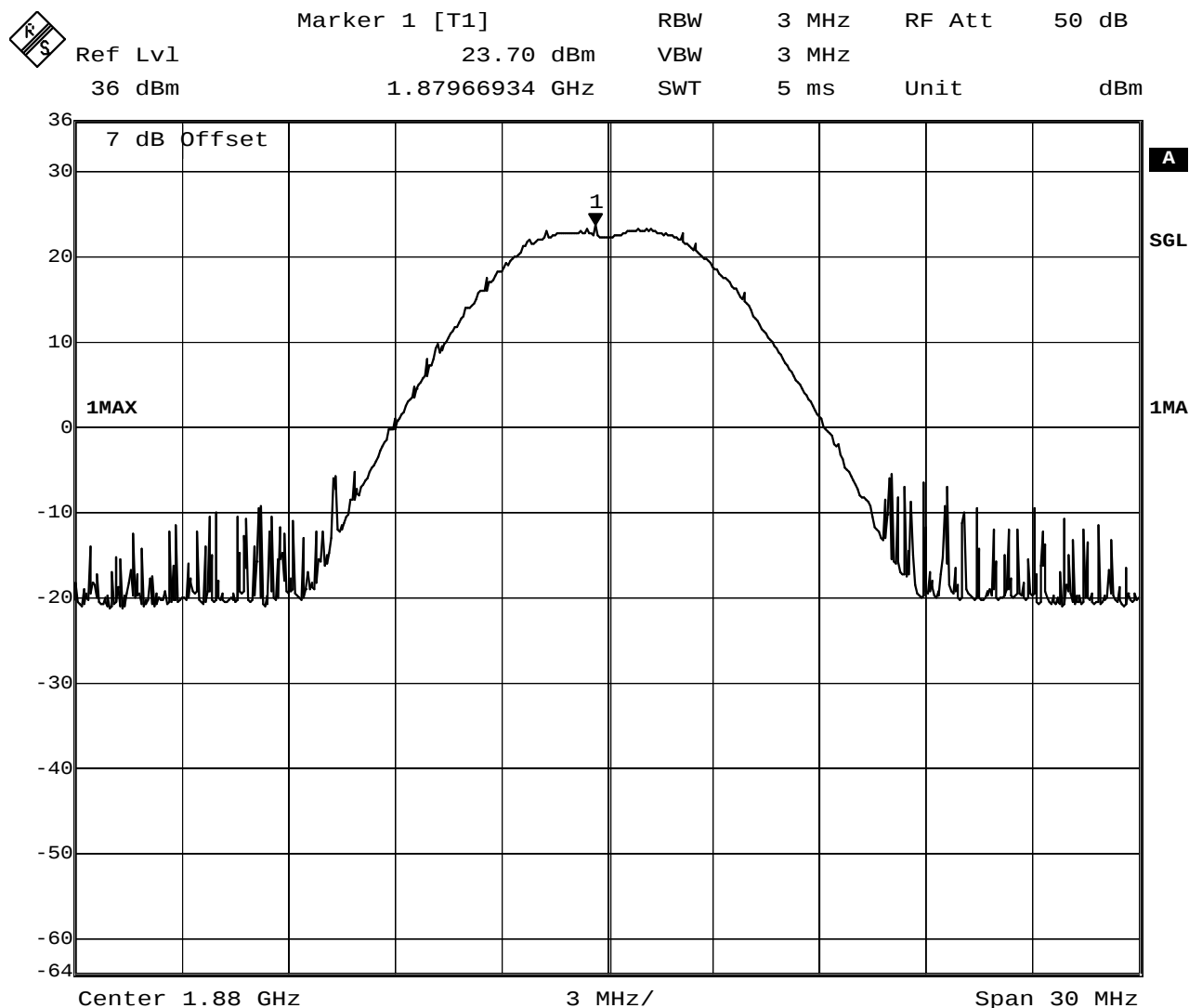
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Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9400
Comment 2	HSDPA subtest 1
Comment 3	



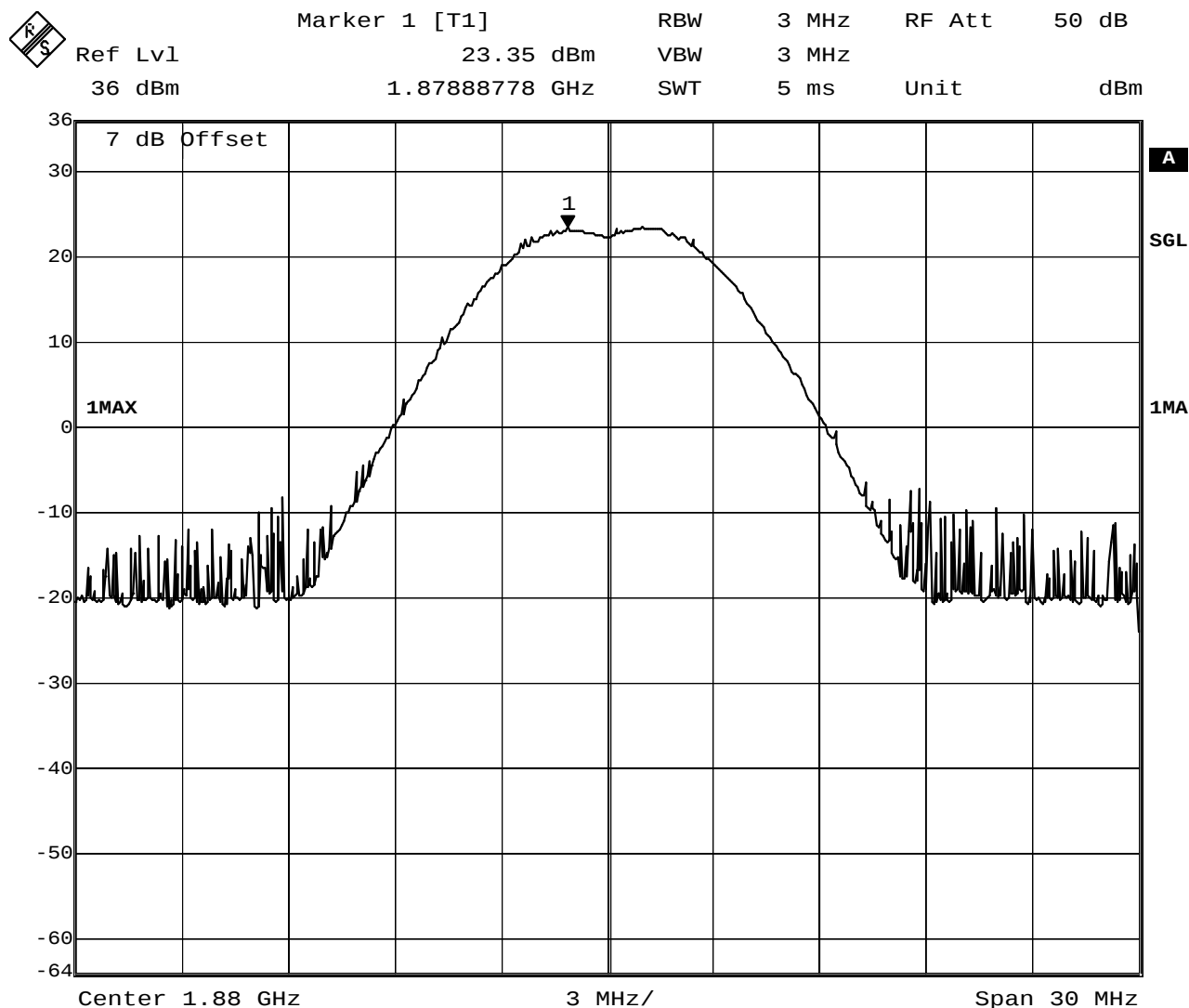
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Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9400
Comment 2	HSDPA subtest 2
Comment 3	



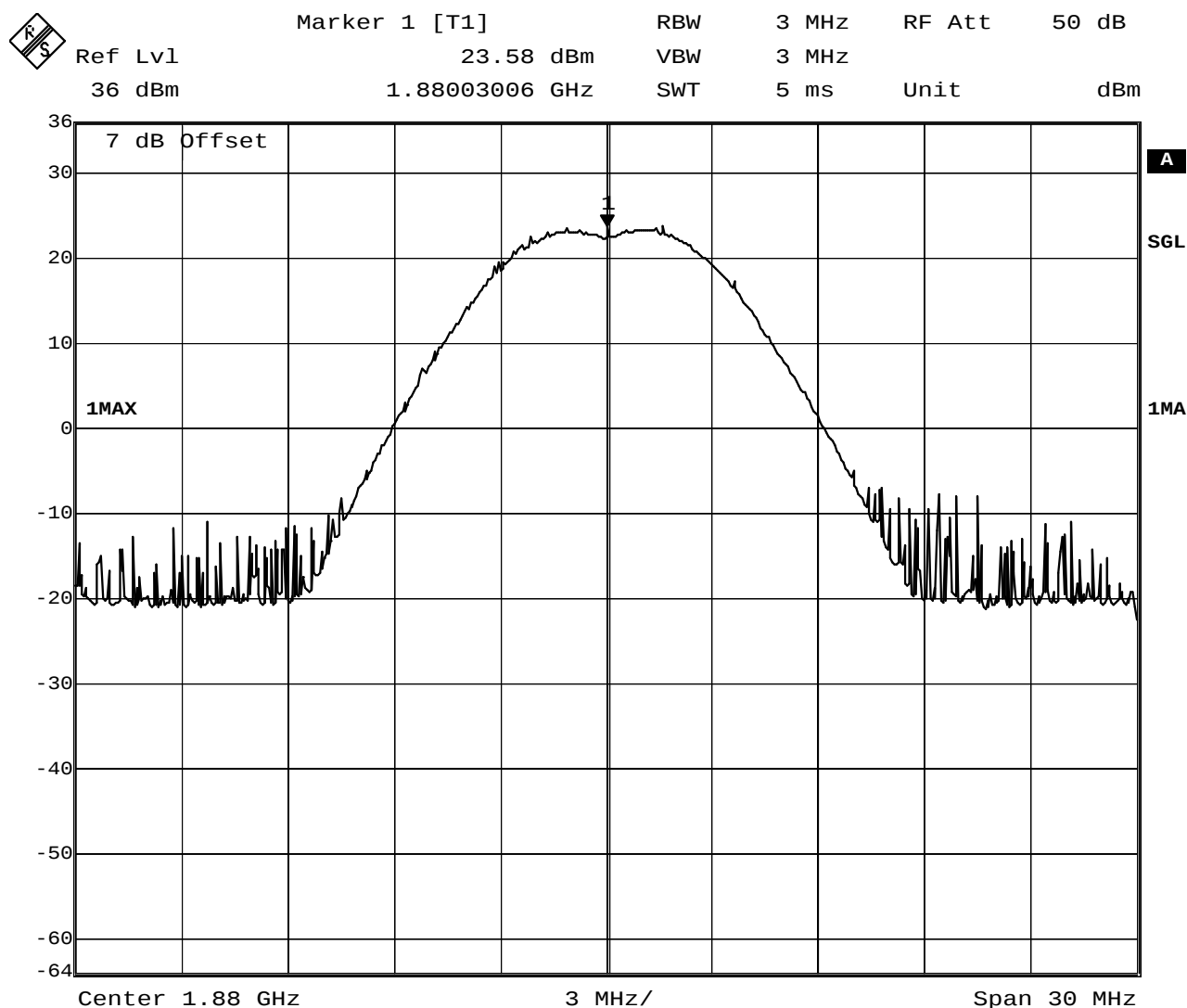
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Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9400
Comment 2	HSDPA subtest 3
Comment 3	



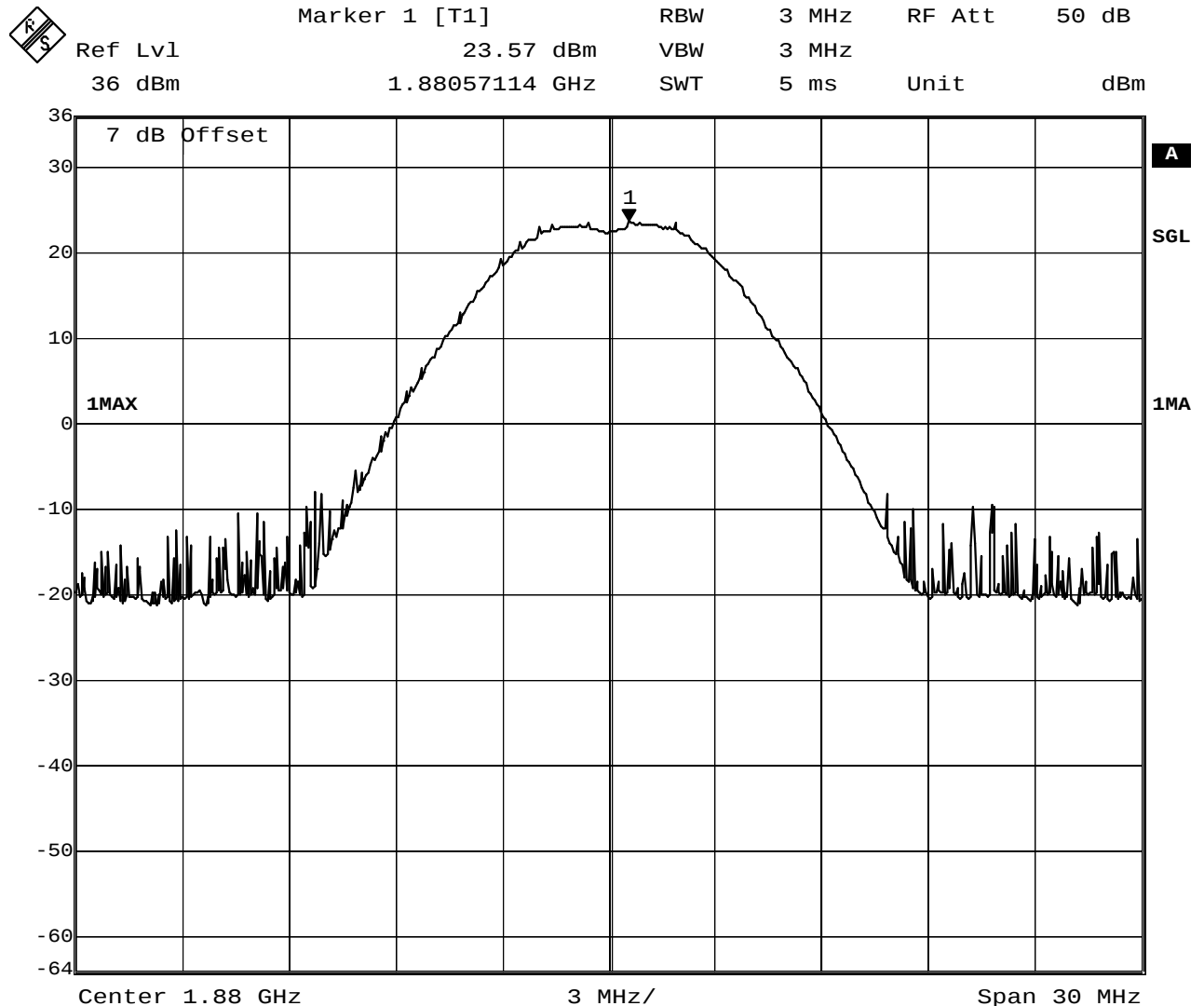
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Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9400
Comment 2	HSDPA subtest 4
Comment 3	



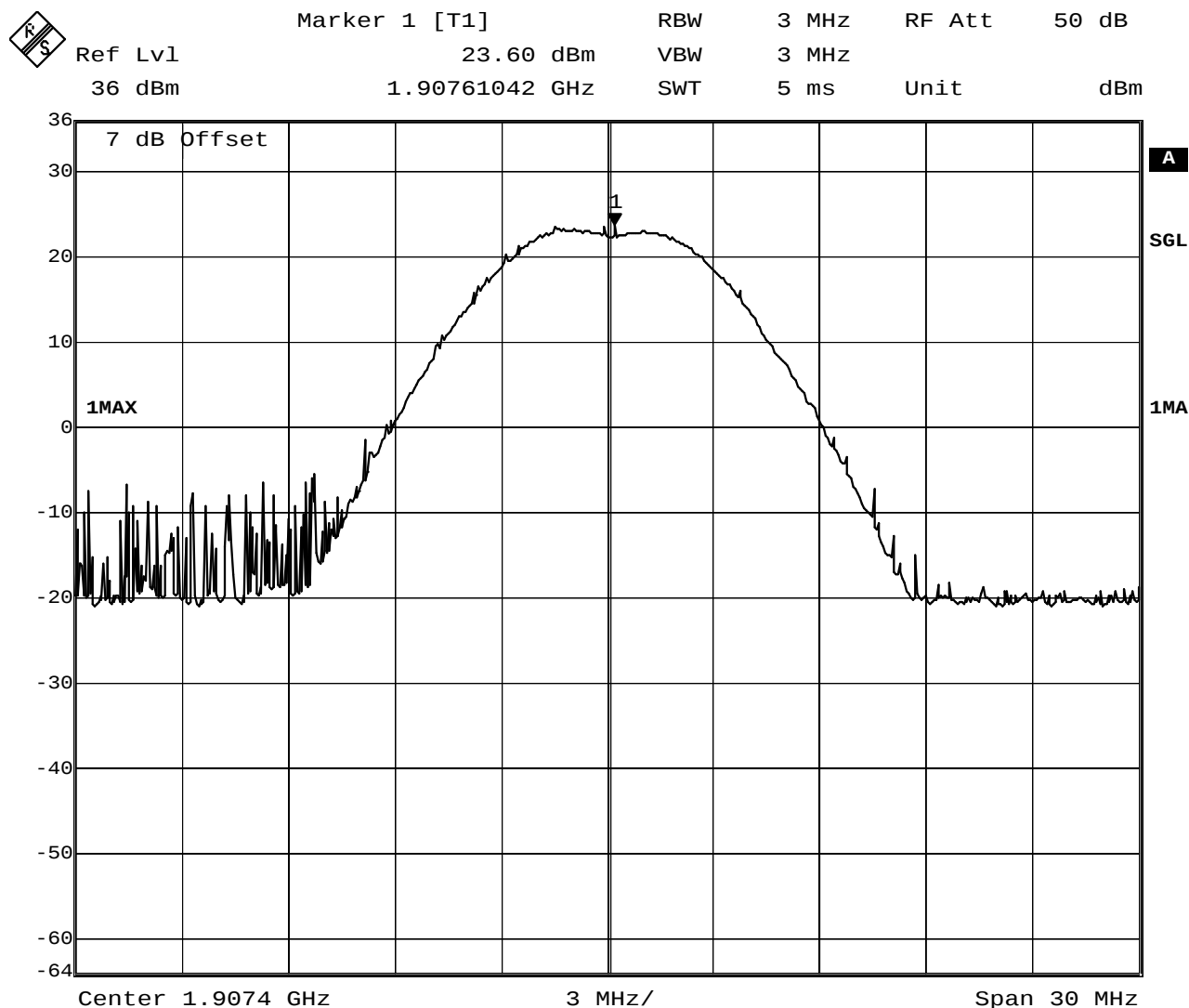
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Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9537
Comment 2	HSDPA subtest 1
Comment 3	



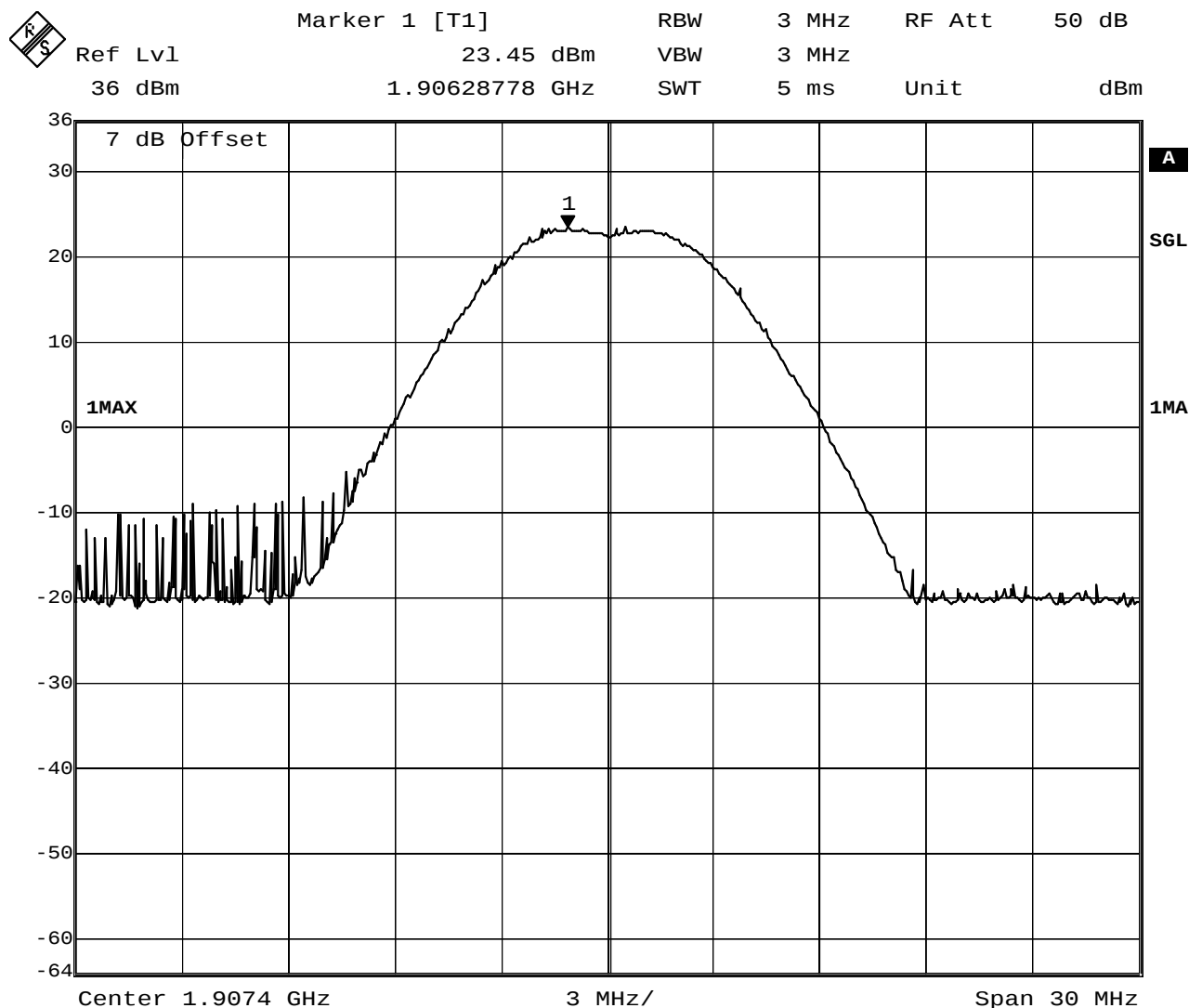
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Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9537
Comment 2	HSDPA subtest 2
Comment 3	



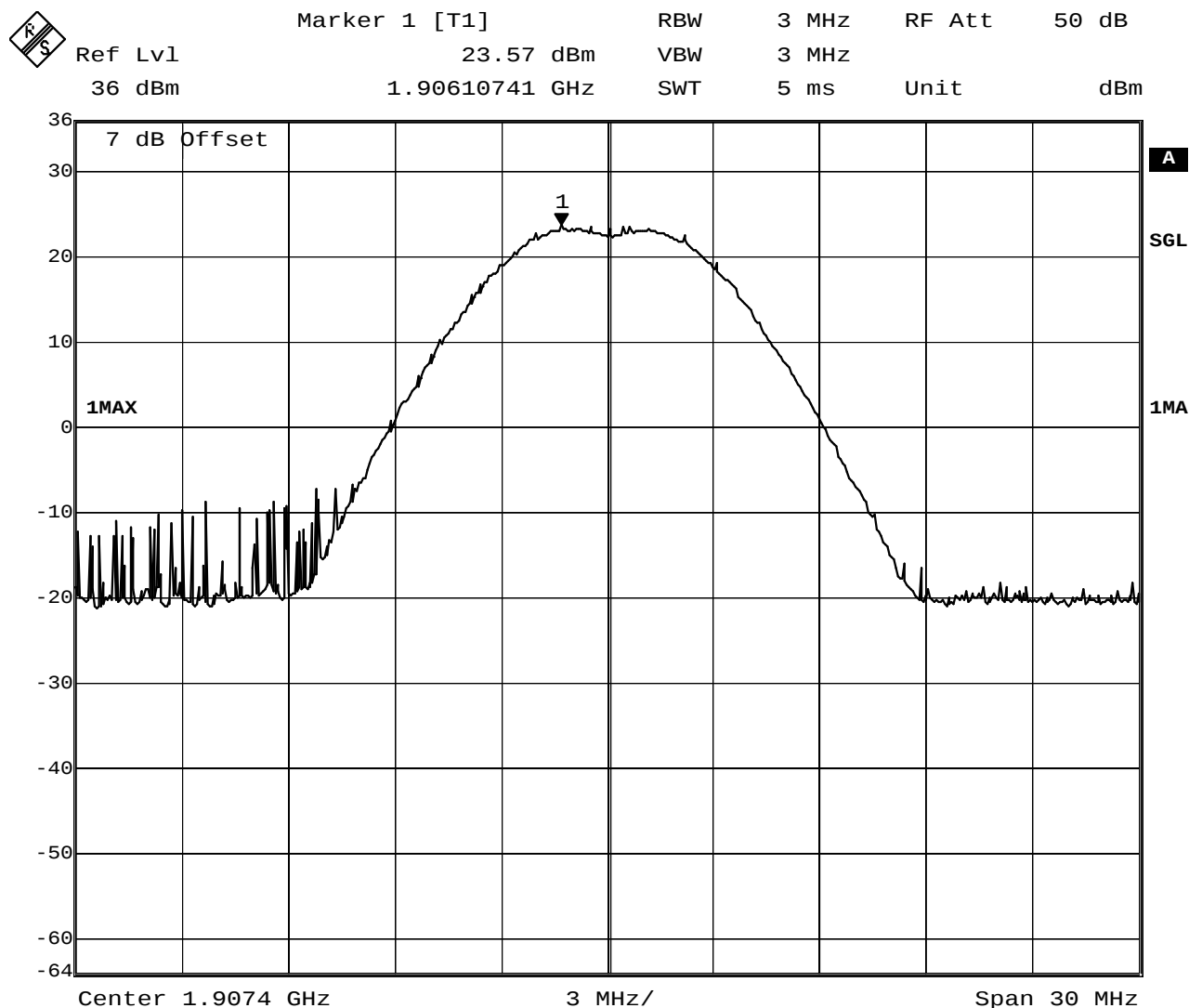
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Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9537
Comment 2	HSDPA subtest 3
Comment 3	



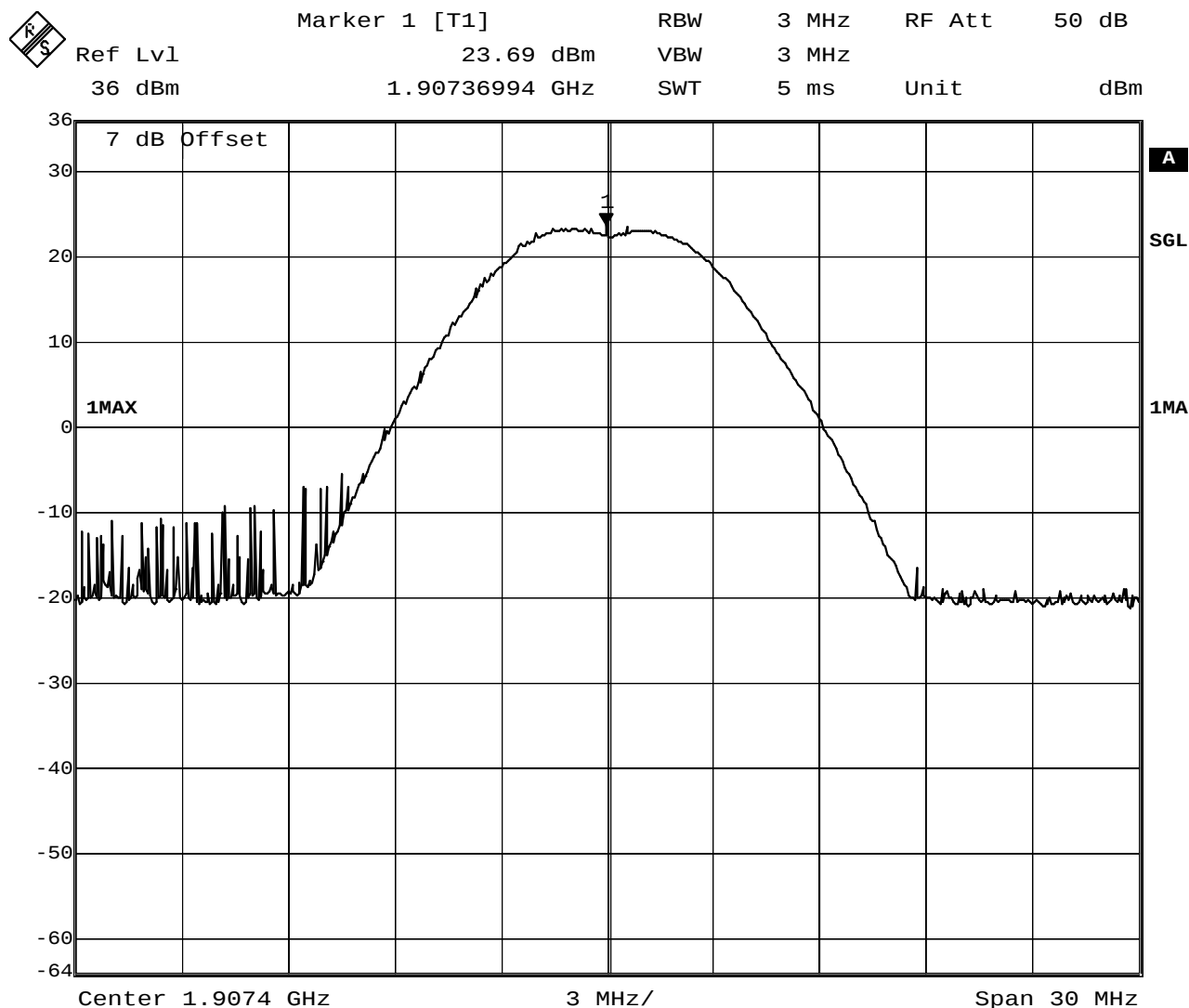
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Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9537
Comment 2	HSDPA subtest 4
Comment 3	



Date: 18.FEB.2009 15:58:23

Measurement diagram

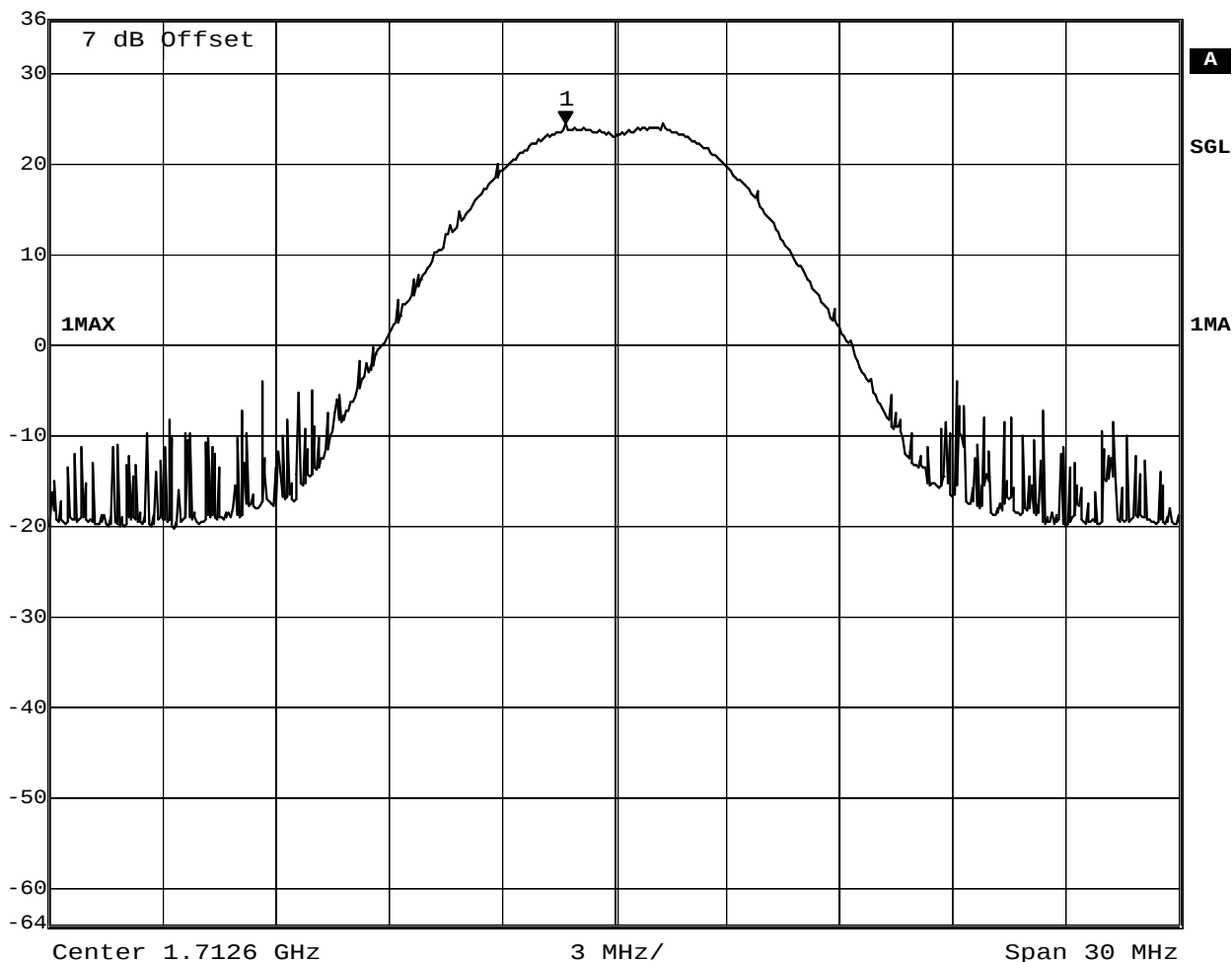
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1313
Comment 2	HSDPA subtest 1
Comment 3	



Ref Lvl	Marker 1 [T1]	RBW	3 MHz	RF Att	50 dB
36 dBm	24.40 dBm	VBW	3 MHz		
	1.71130741 GHz	SWT	5 ms	Unit	dBm



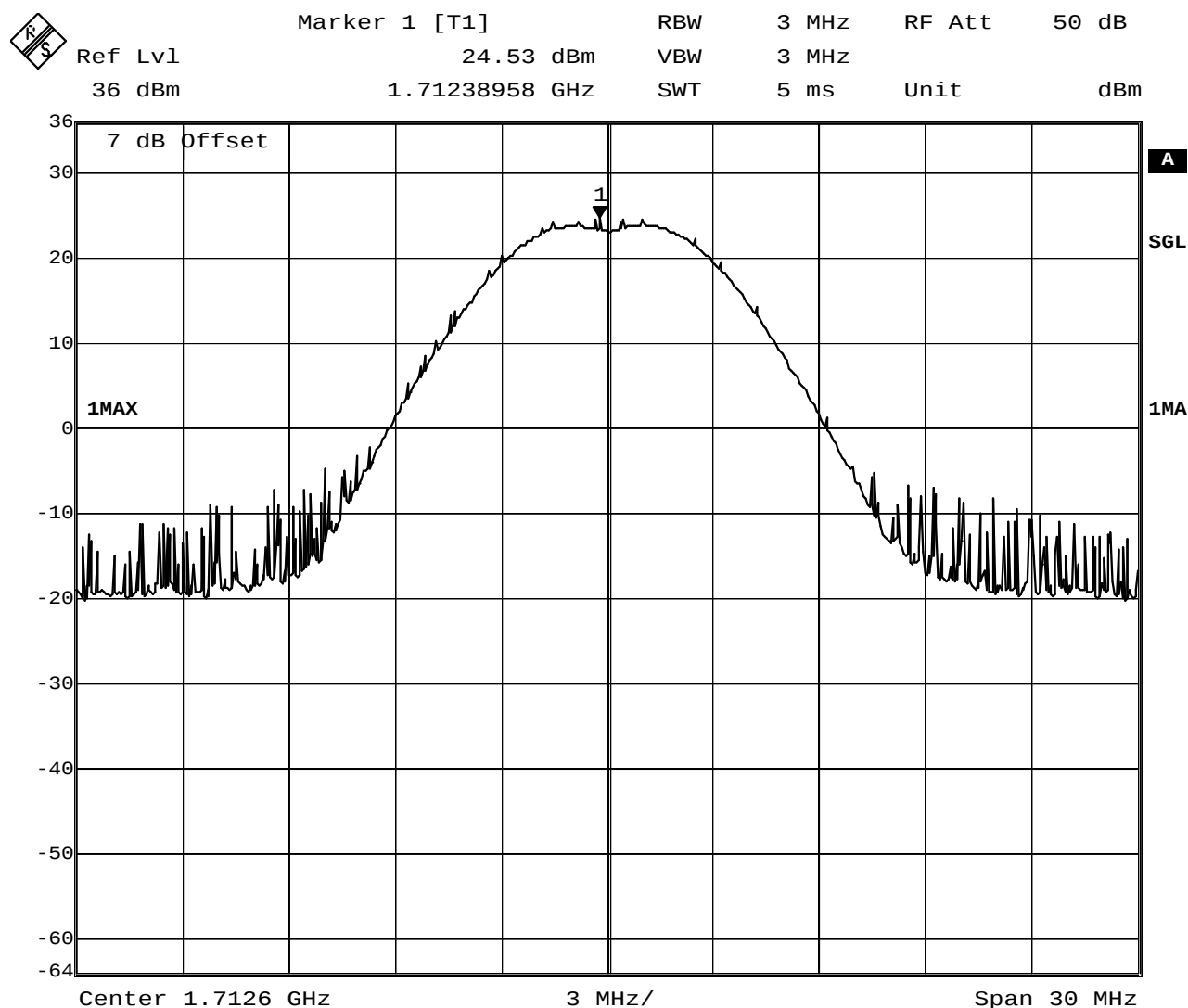
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Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1313
Comment 2	HSDPA subtest 2
Comment 3	



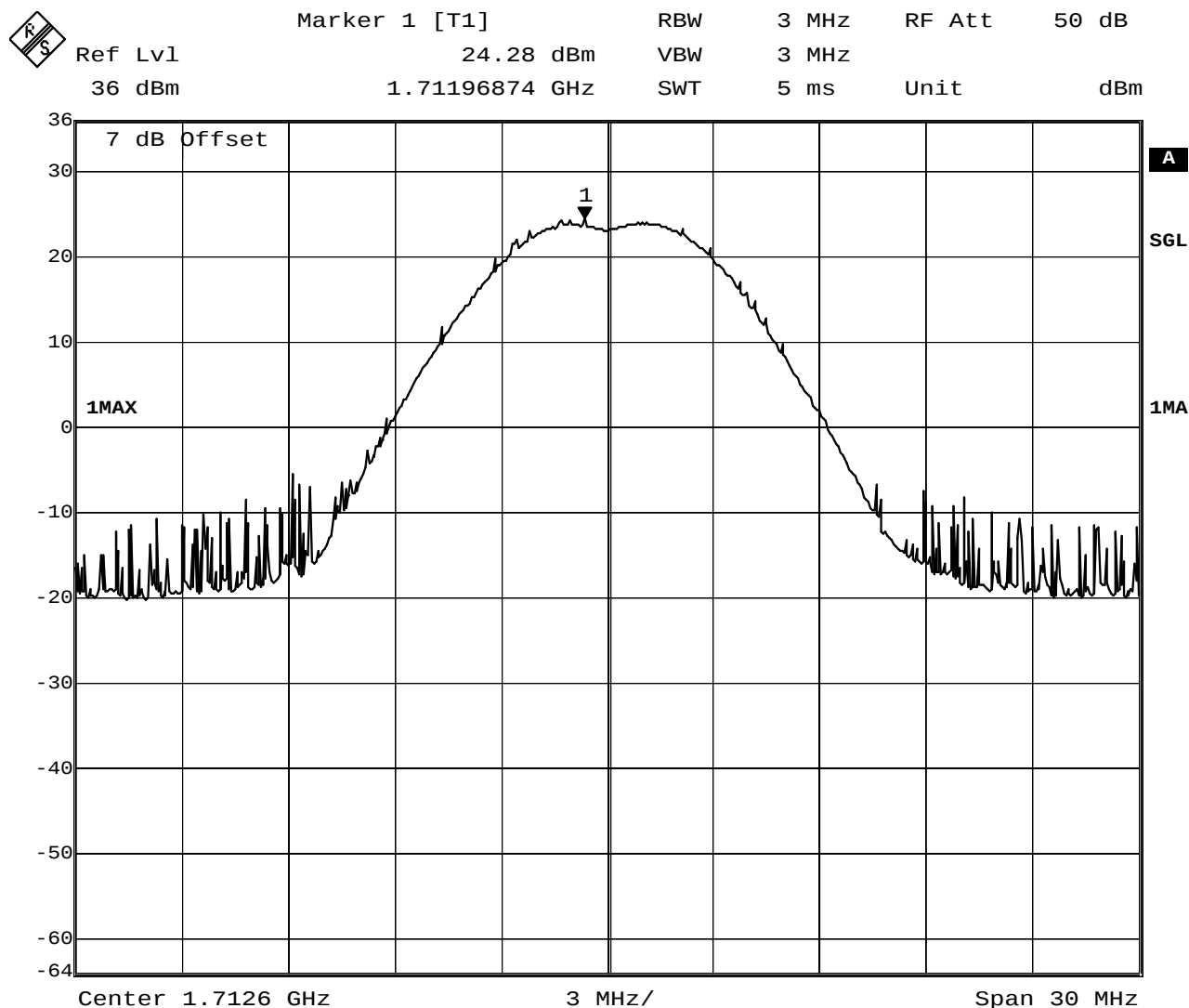
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Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1313
Comment 2	HSDPA subtest 3
Comment 3	



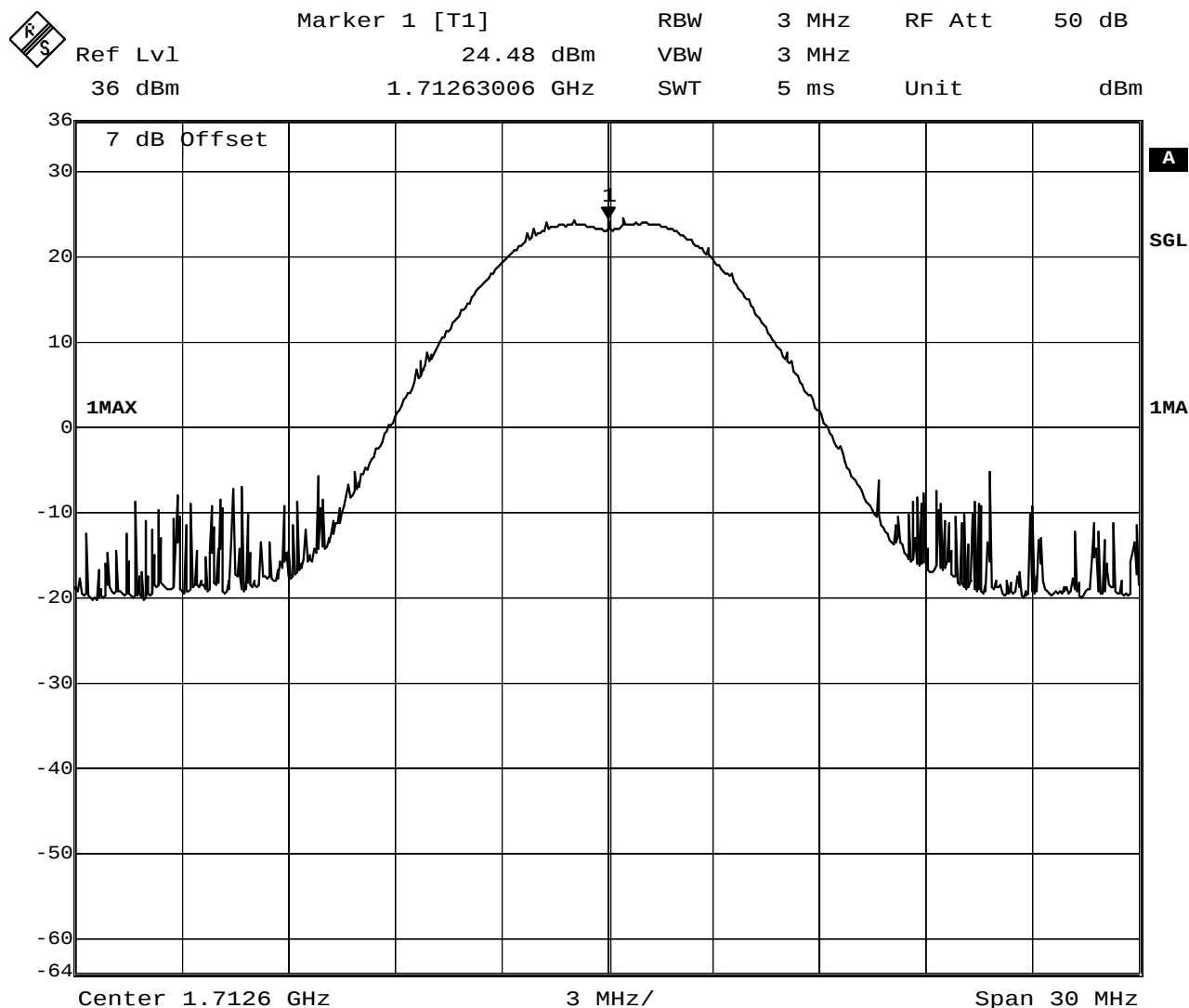
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Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1313
Comment 2	HSDPA subtest 4
Comment 3	



Date: 18.FEB.2009 16:27:16

Measurement diagram

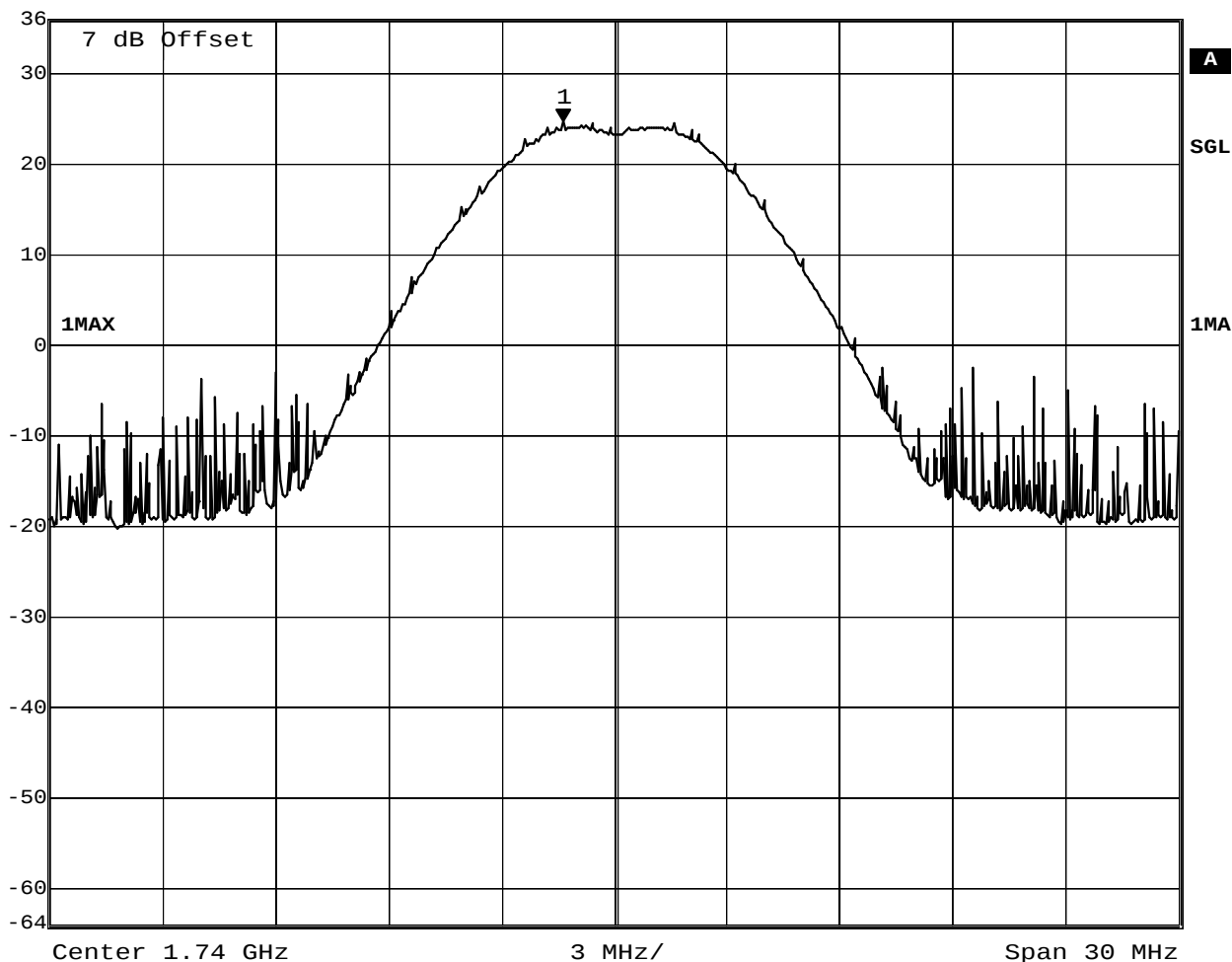
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1450
Comment 2	HSDPA subtest 1
Comment 3	



Marker 1 [T1]	RBW	3 MHz	RF Att	50 dB
Ref Lvl	24.51 dBm	VBW	3 MHz	
36 dBm	1.73864729 GHz	SWT	5 ms	Unit dBm



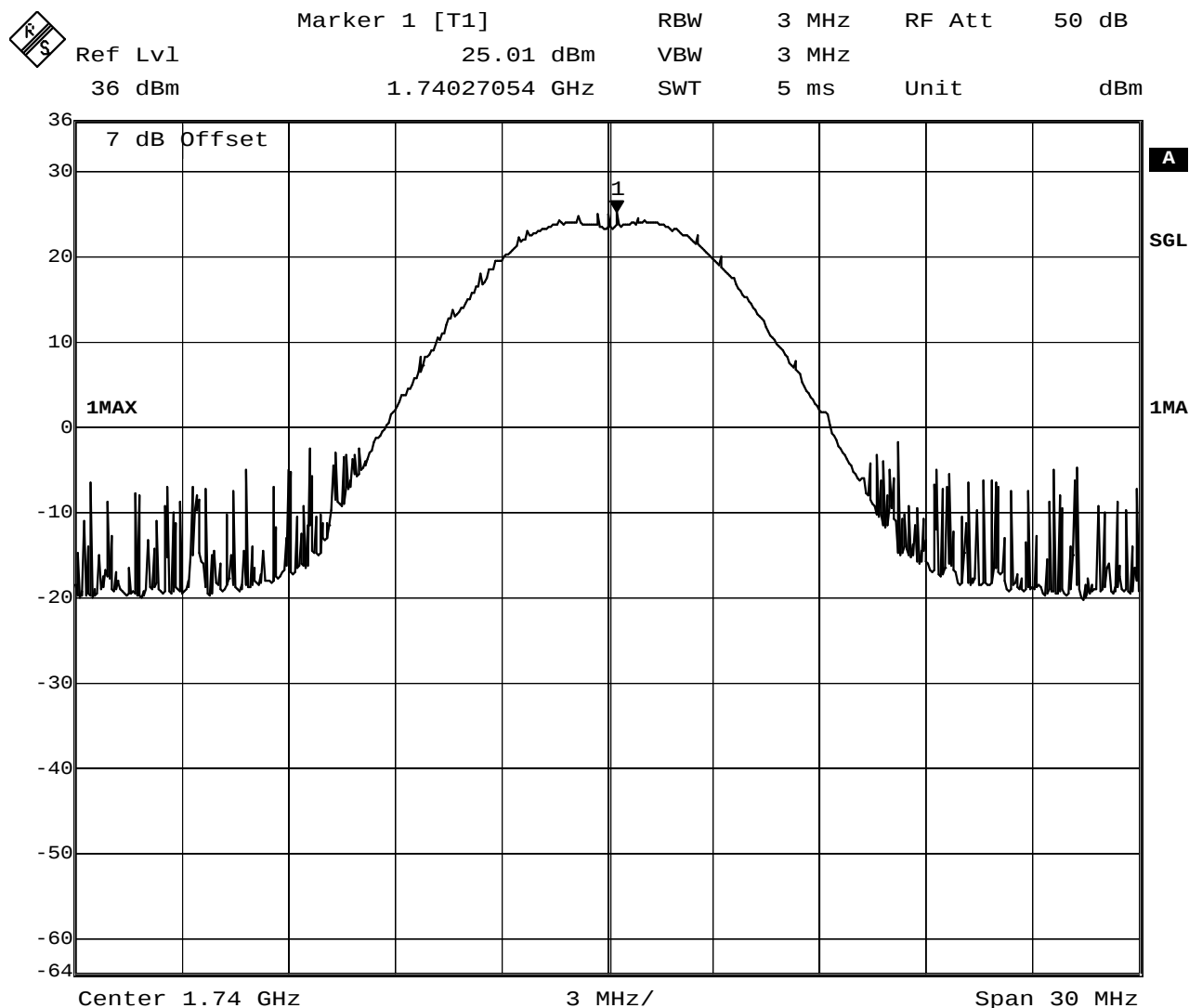
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Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1450
Comment 2	HSDPA subtest 2
Comment 3	



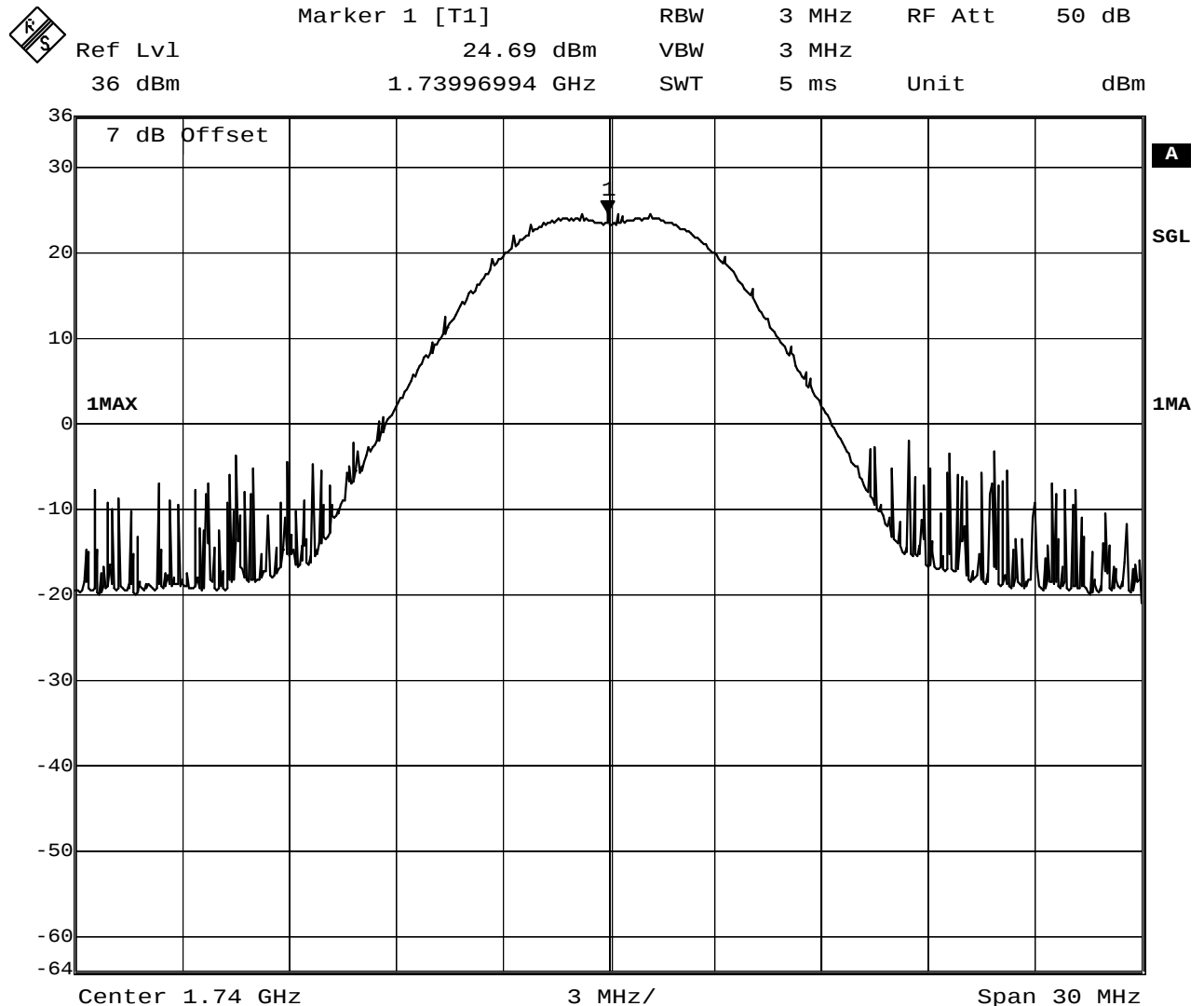
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Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1450
Comment 2	HSDPA subtest 3
Comment 3	



Date: 18.FEB.2009 16:29:01

Measurement diagram

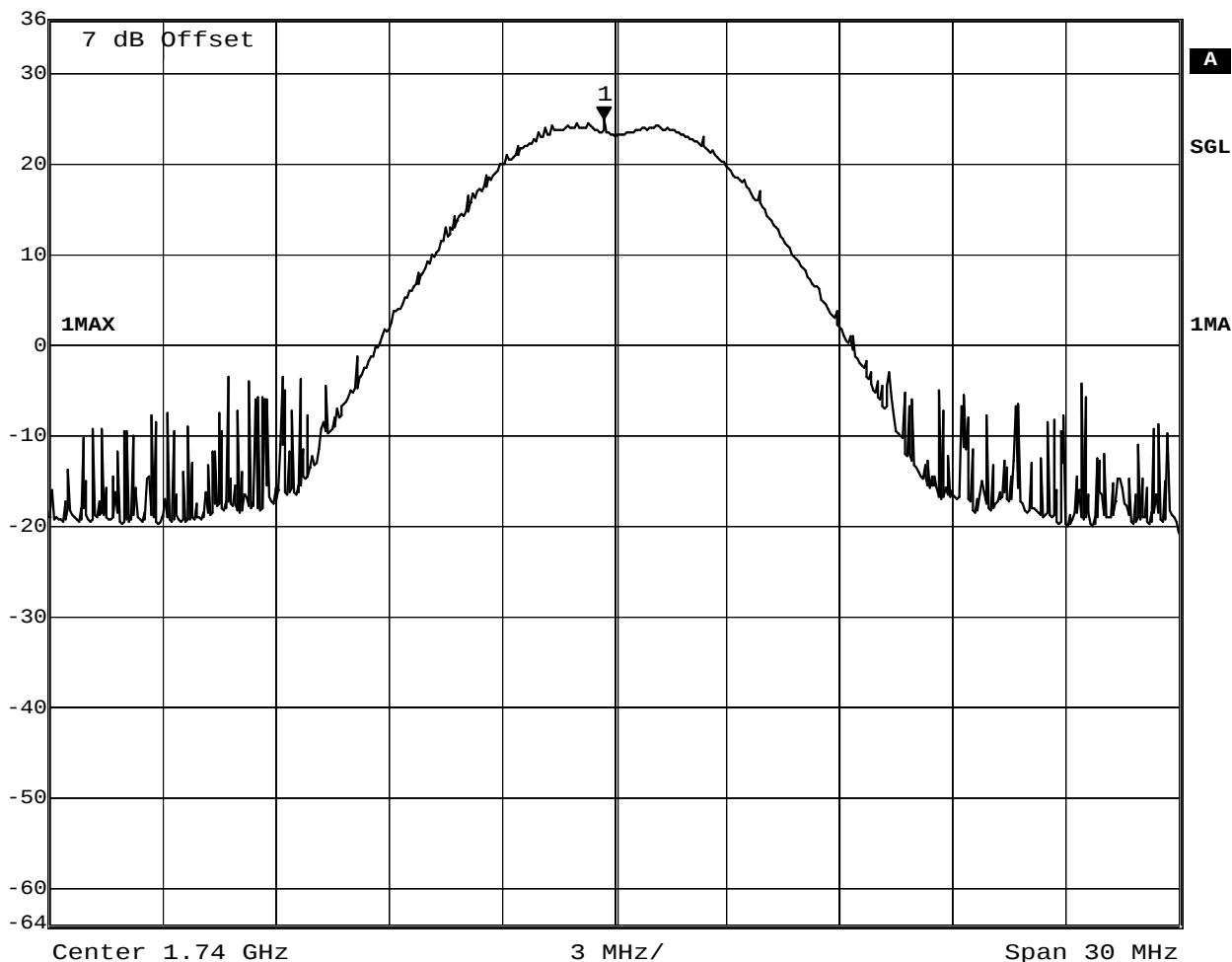
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1450
Comment 2	HSDPA subtest 4
Comment 3	



Ref Lvl	Marker 1 [T1]	RBW	3 MHz	RF Att	50 dB
36 dBm	24.81 dBm	VBW	3 MHz		
	1.73972946 GHz	SWT	5 ms	Unit	dBm



Date: 18.FEB.2009 16:28:19

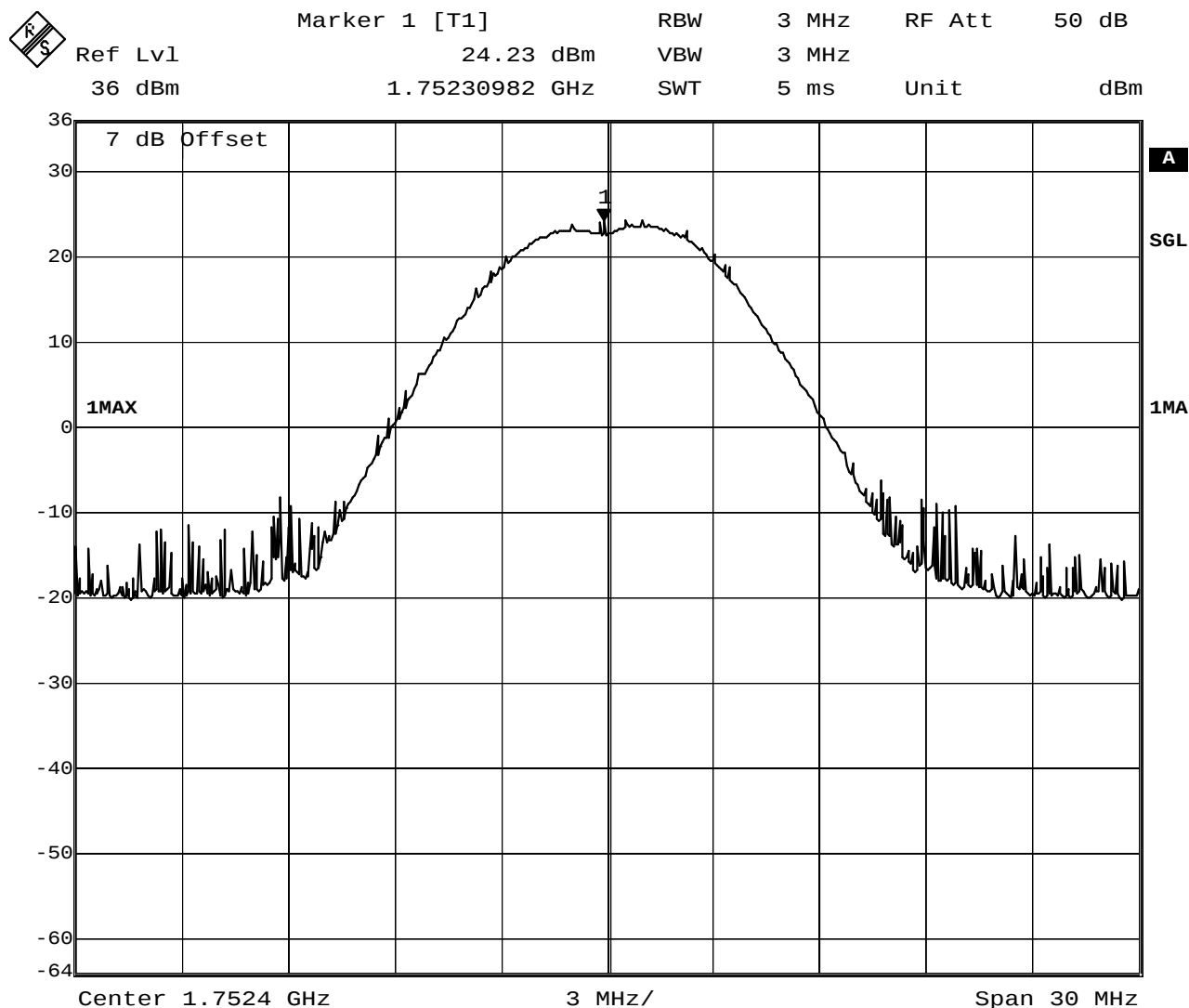
Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C

Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1512
Comment 2	HSDPA subtest 1
Comment 3	



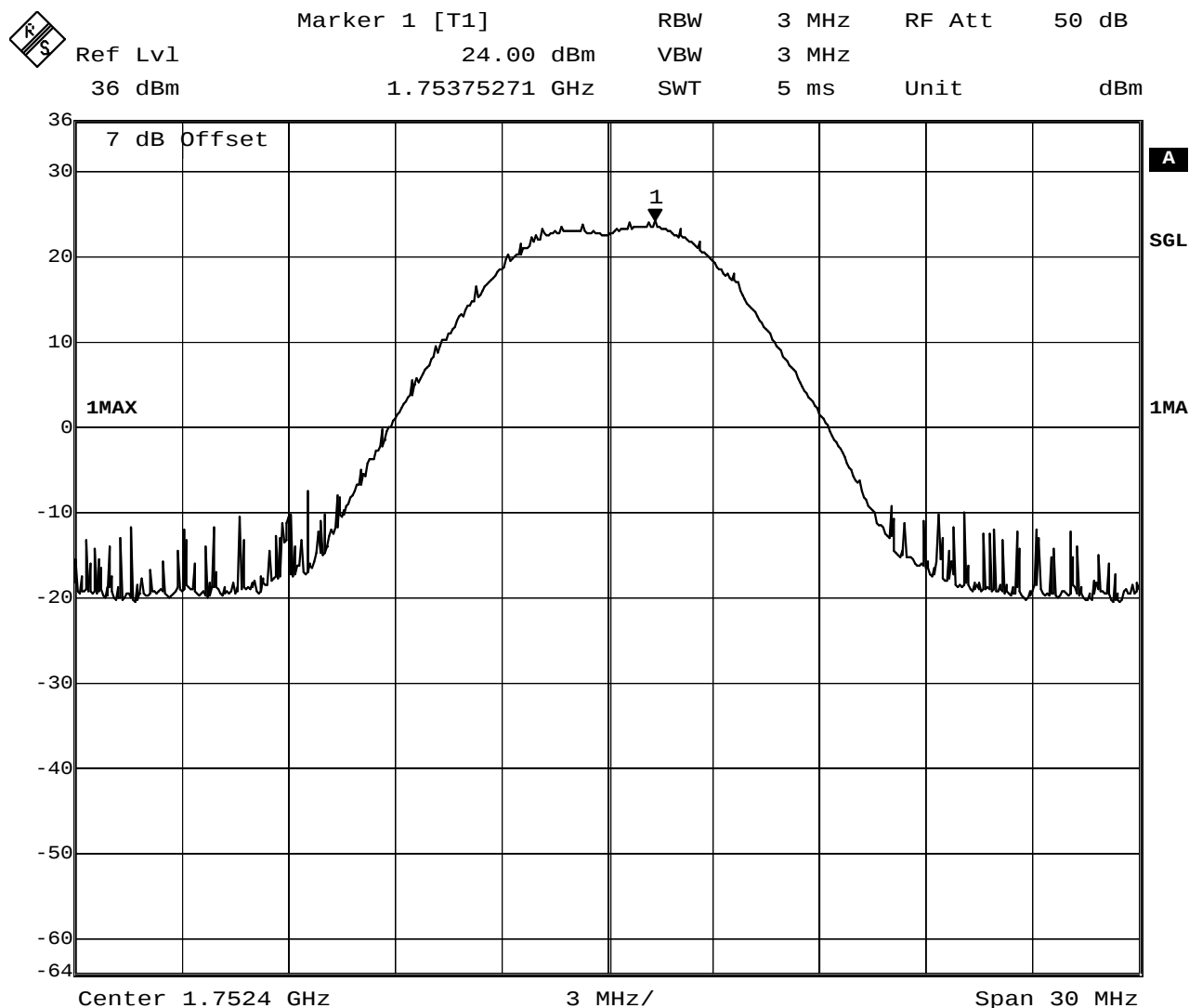
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Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1512
Comment 2	HSDPA subtest 2
Comment 3	



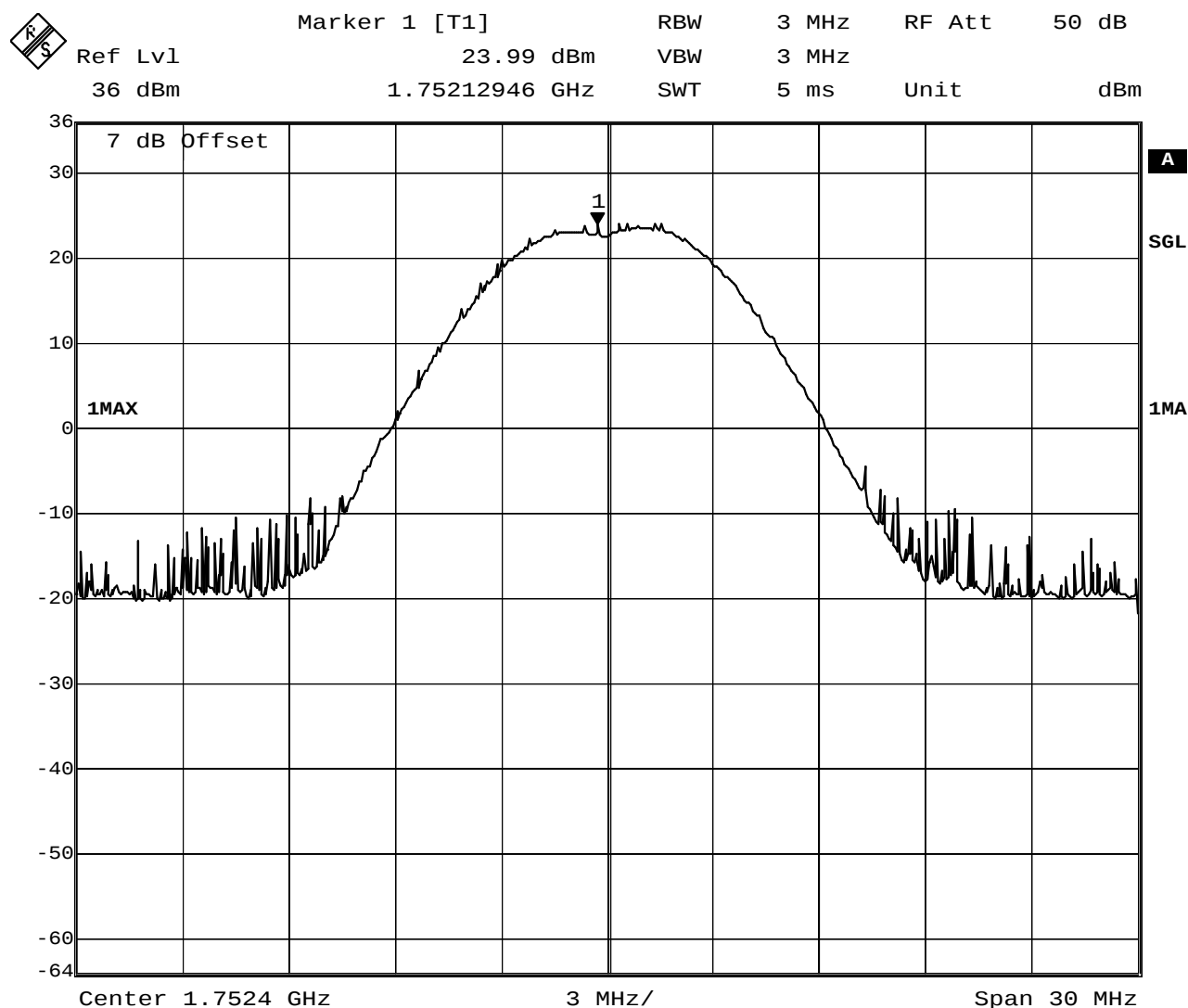
Date: 18.FEB.2009 16:21:51

Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1512
Comment 2	HSDPA subtest 3
Comment 3	



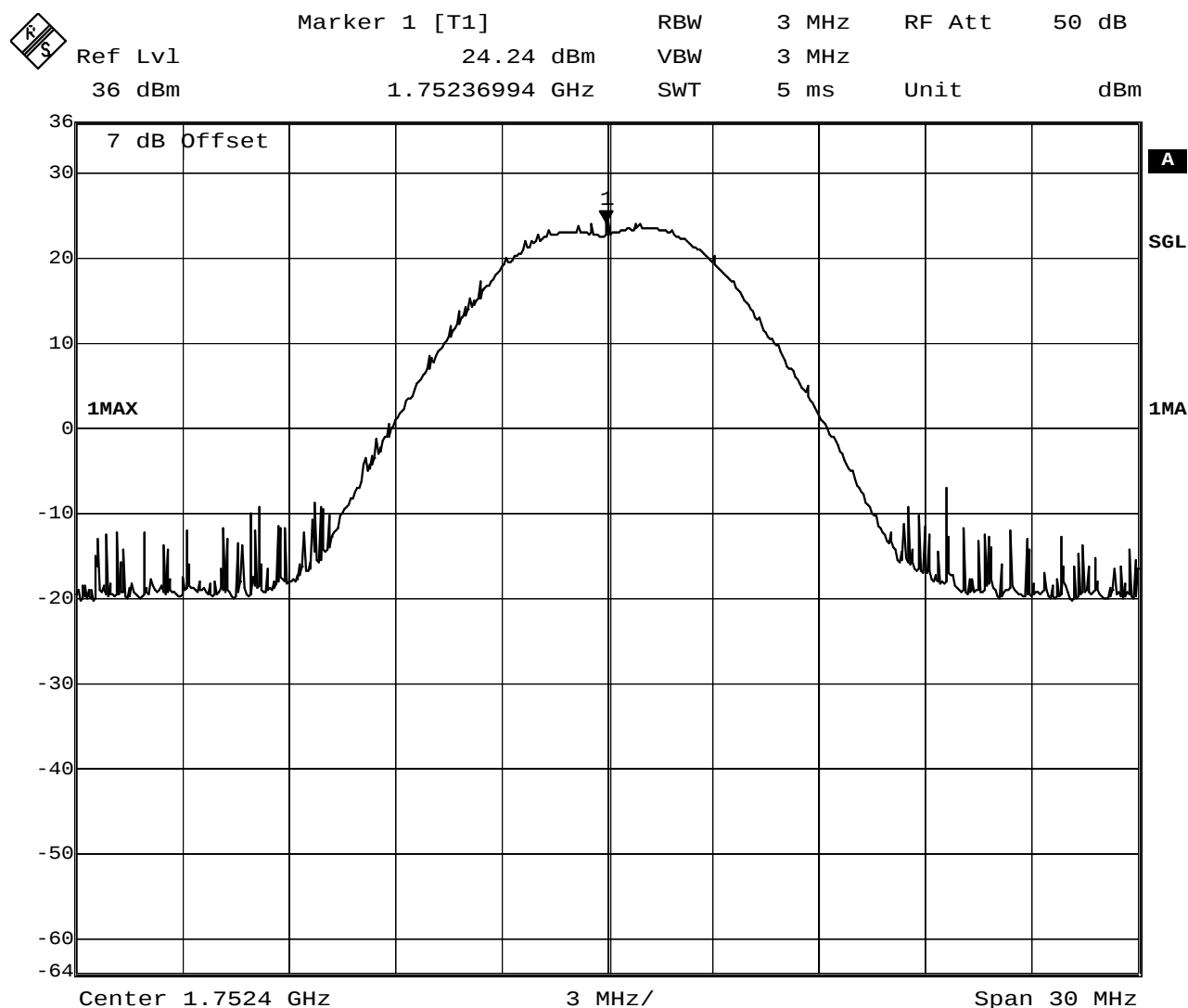
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Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1512
Comment 2	HSDPA subtest 4
Comment 3	



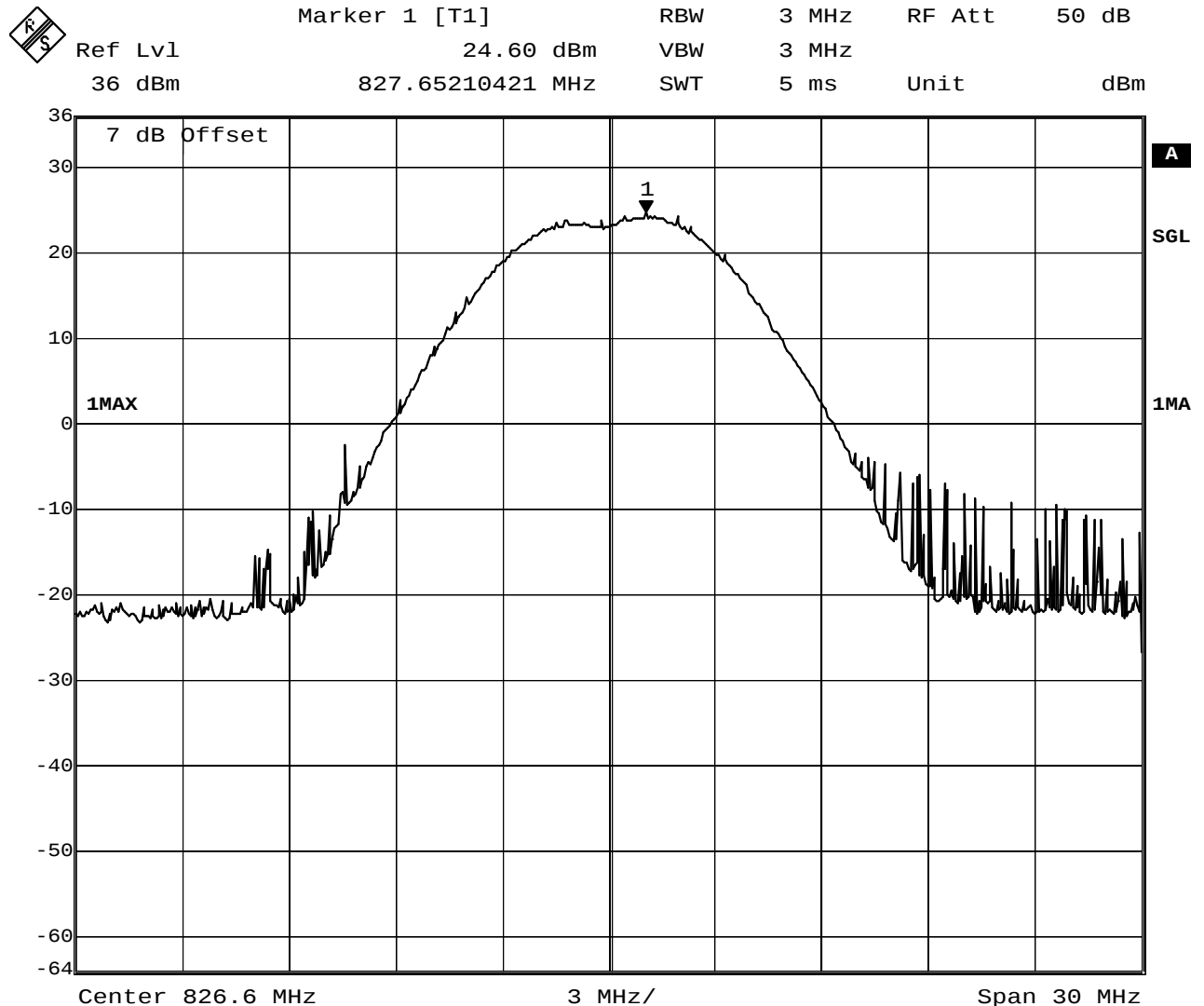
Date: 18.FEB.2009 16:24:10

Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4133
Comment 2	HSDPA subtest 1
Comment 3	



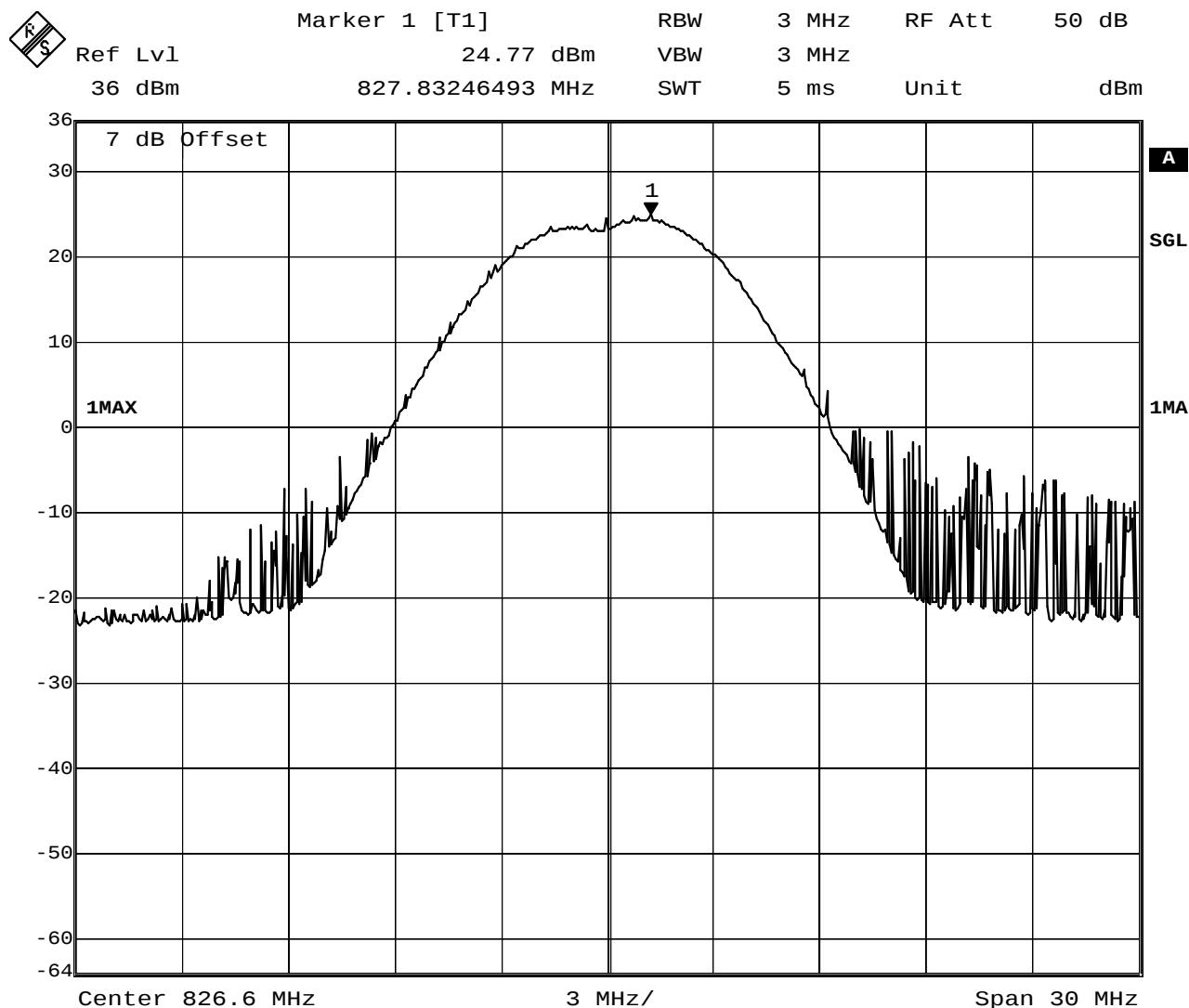
Date: 18.FEB.2009 17:19:27

Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4133
Comment 2	HSDPA subtest 2
Comment 3	



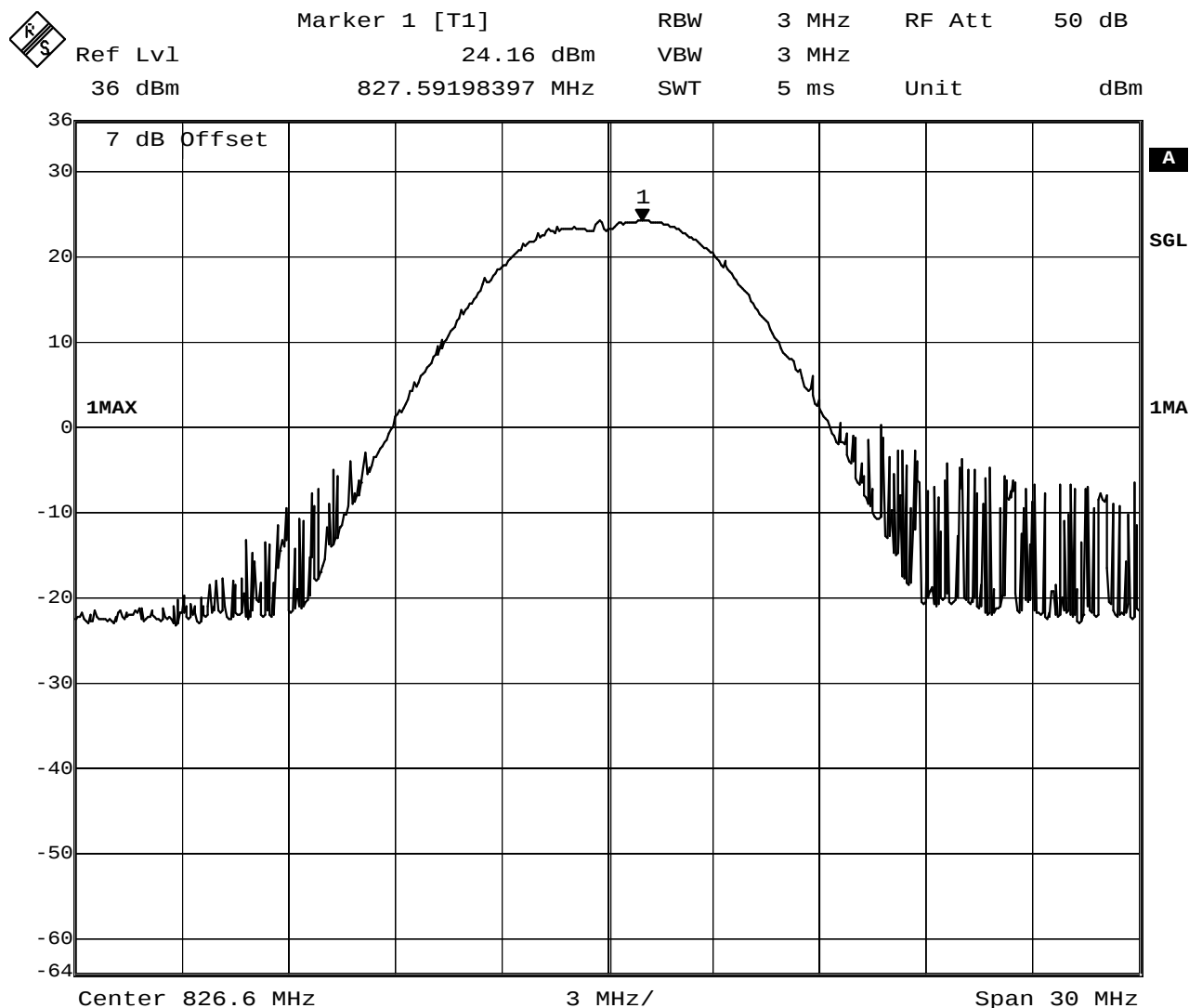
Date: 18.FEB.2009 17:34:42

Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4133
Comment 2	HSDPA subtest 3
Comment 3	



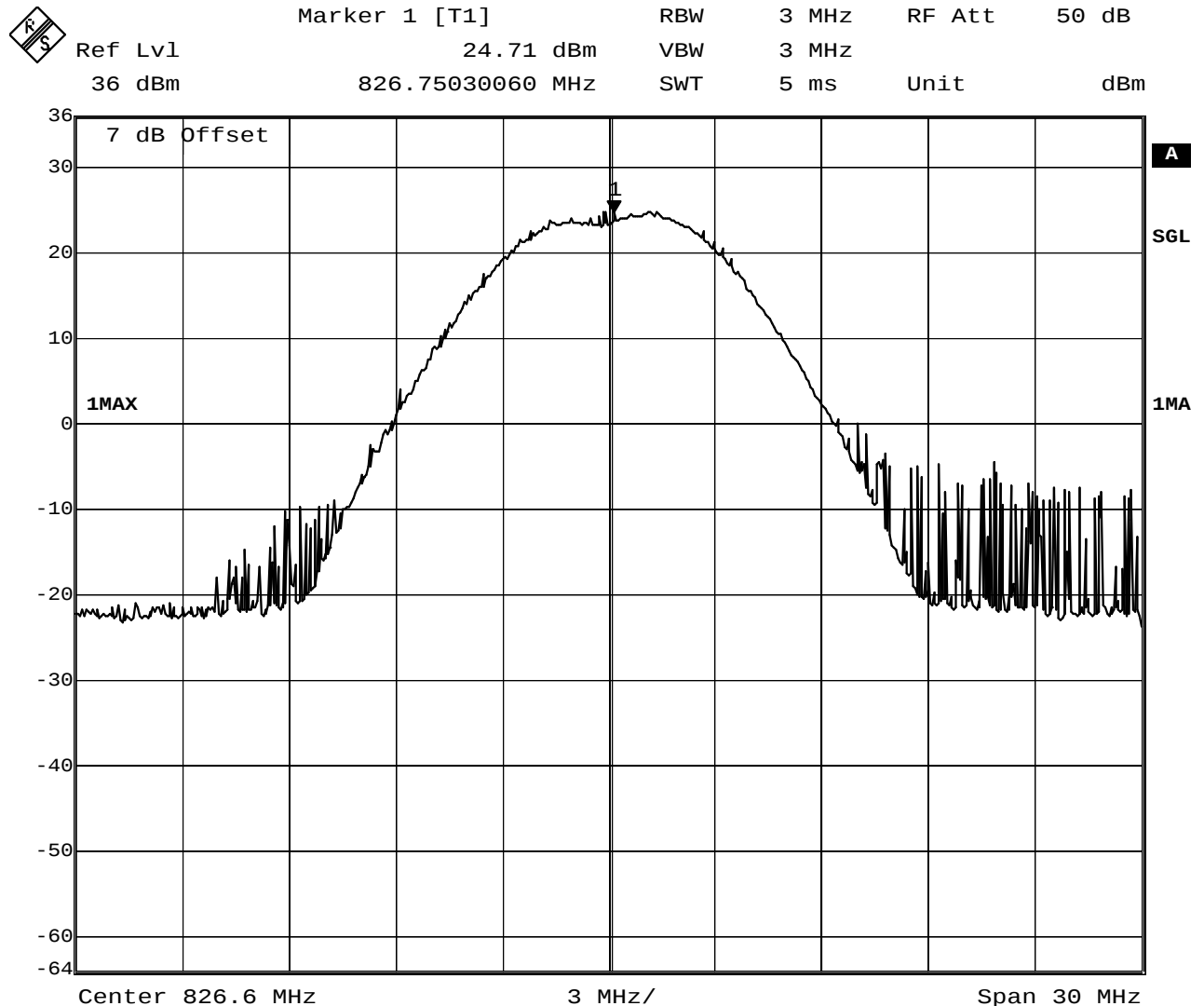
Date: 18.FEB.2009 17:35:24

Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4133
Comment 2	HSDPA subtest 4
Comment 3	



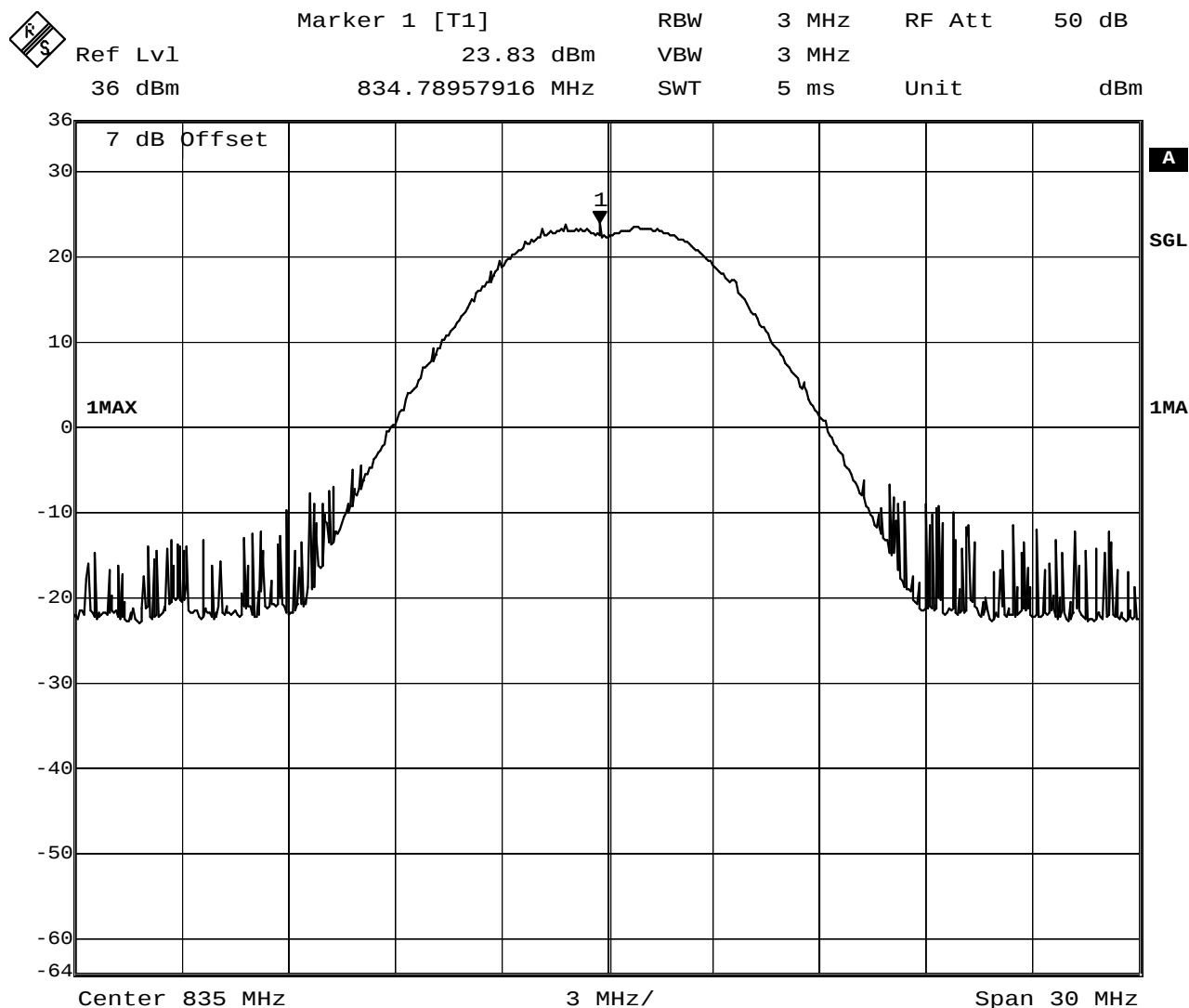
Date: 18.FEB.2009 17:37:40

Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4175
Comment 2	HSDPA subtest 1
Comment 3	



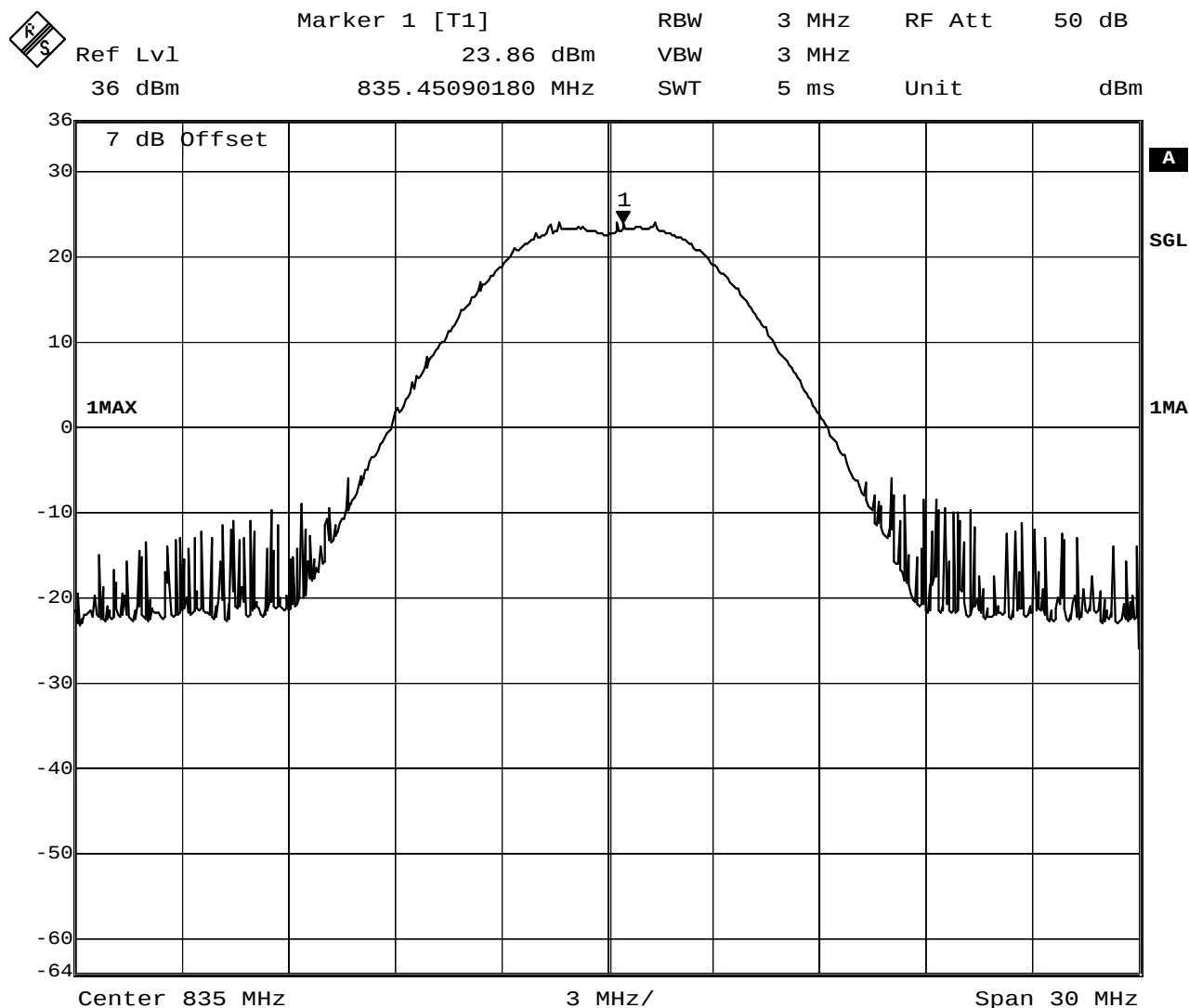
Date: 18.FEB.2009 17:22:05

Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4175
Comment 2	HSDPA subtest 2
Comment 3	



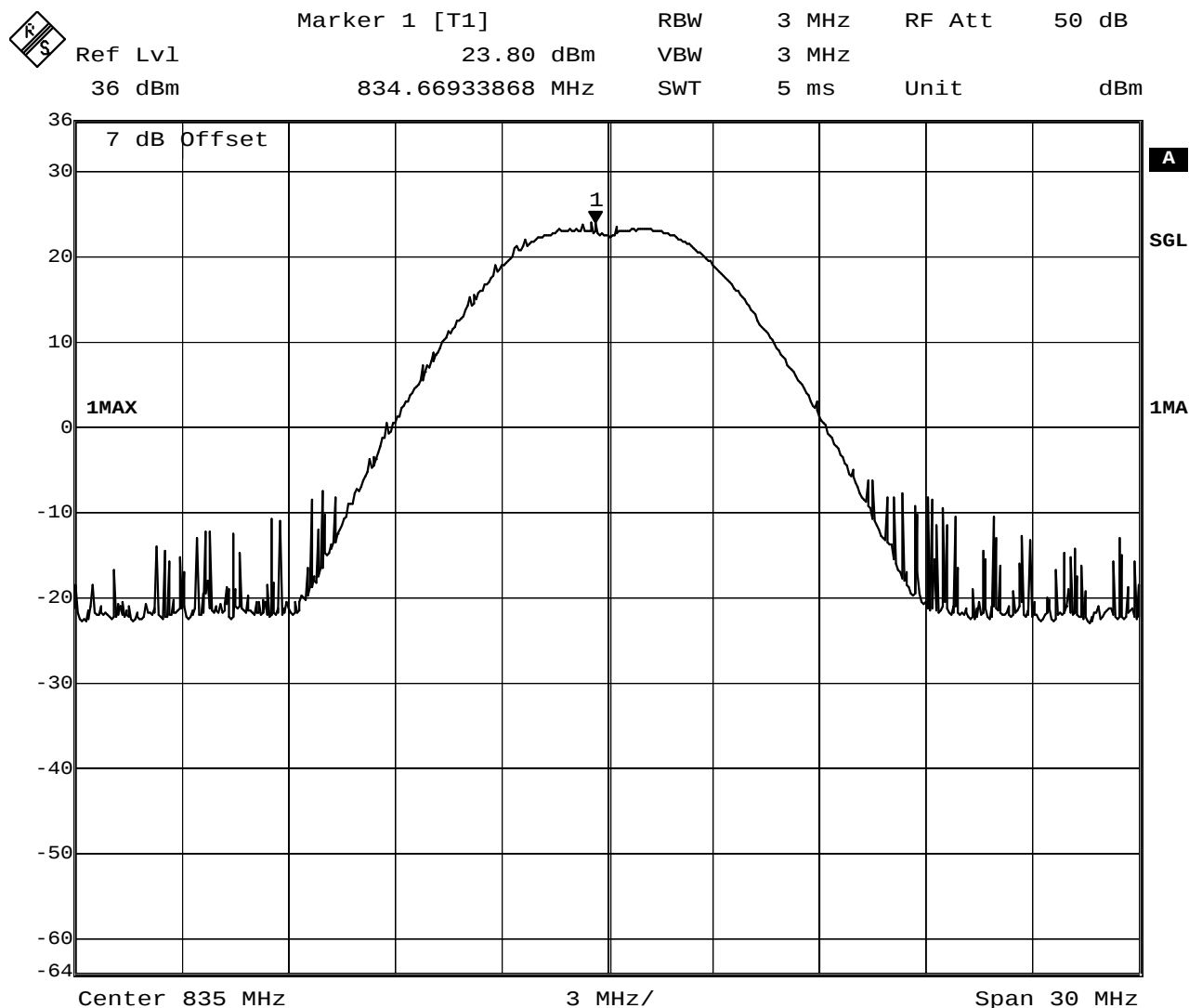
Date: 18.FEB.2009 17:33:35

Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4175
Comment 2	HSDPA subtest 3
Comment 3	



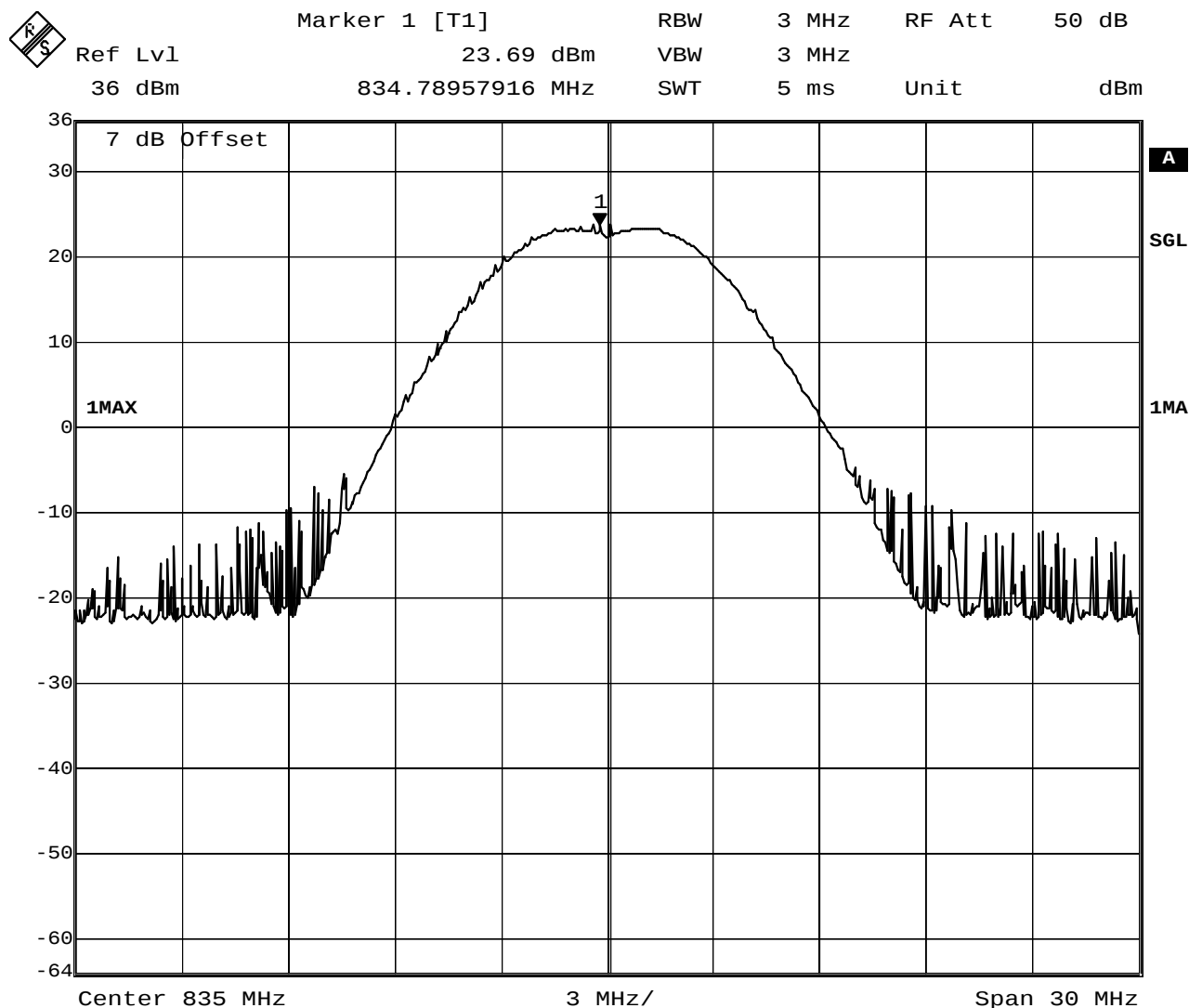
Date: 18.FEB.2009 17:32:41

Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4175
Comment 2	HSDPA subtest 4
Comment 3	



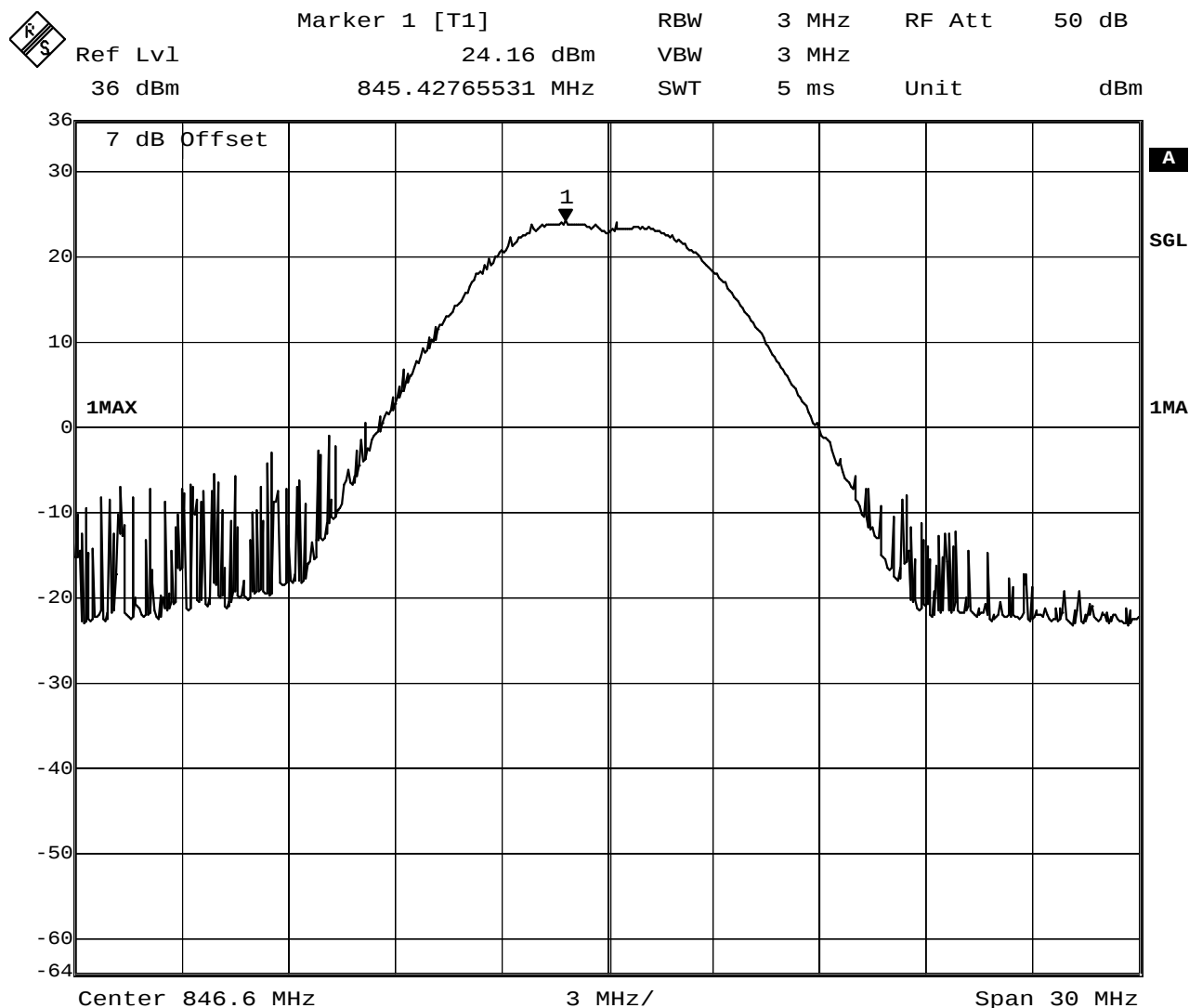
Date: 18.FEB.2009 17:31:59

Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4232
Comment 2	HSDPA subtest 1
Comment 3	



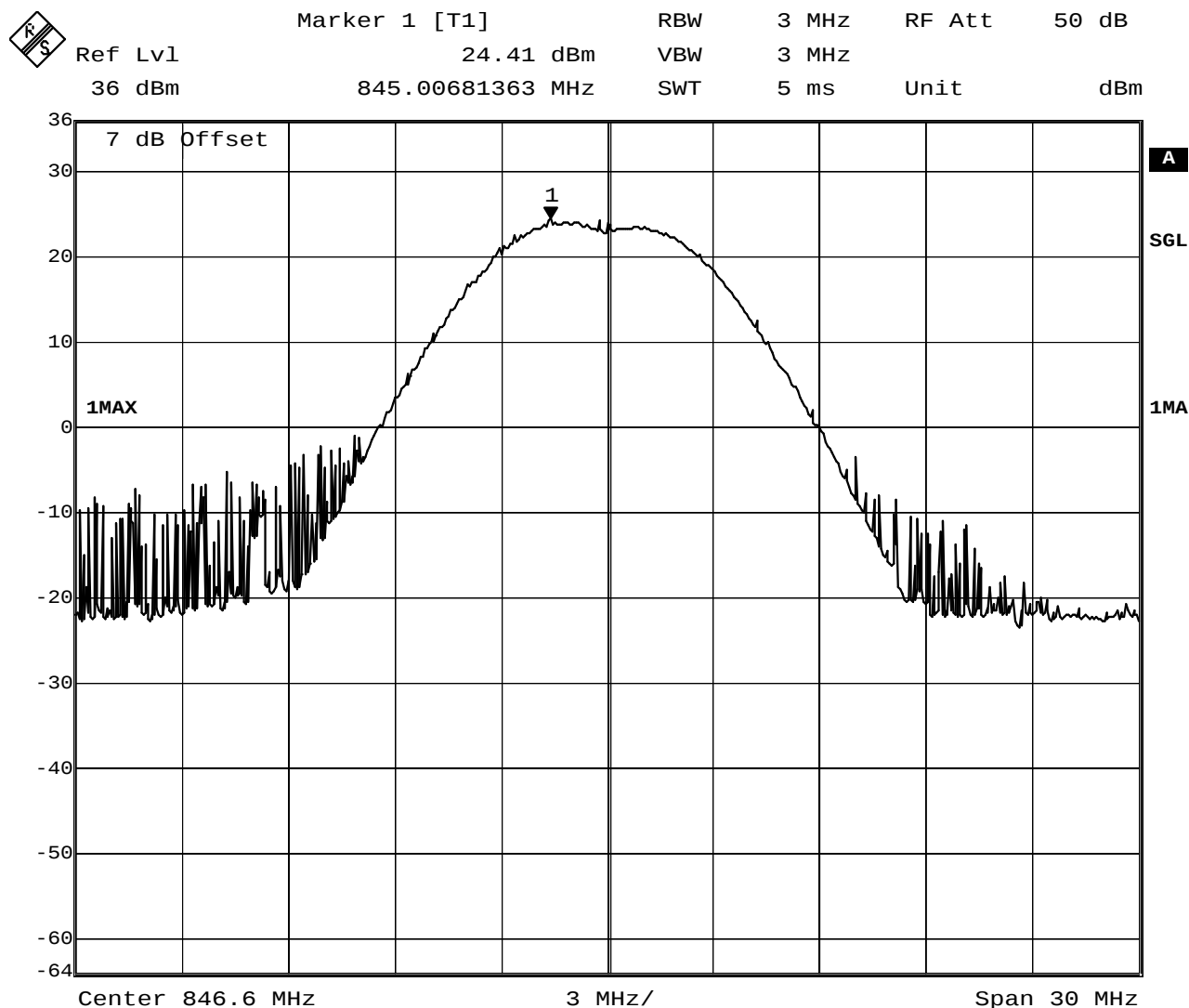
Date: 18.FEB.2009 17:27:45

Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4232
Comment 2	HSDPA subtest 2
Comment 3	



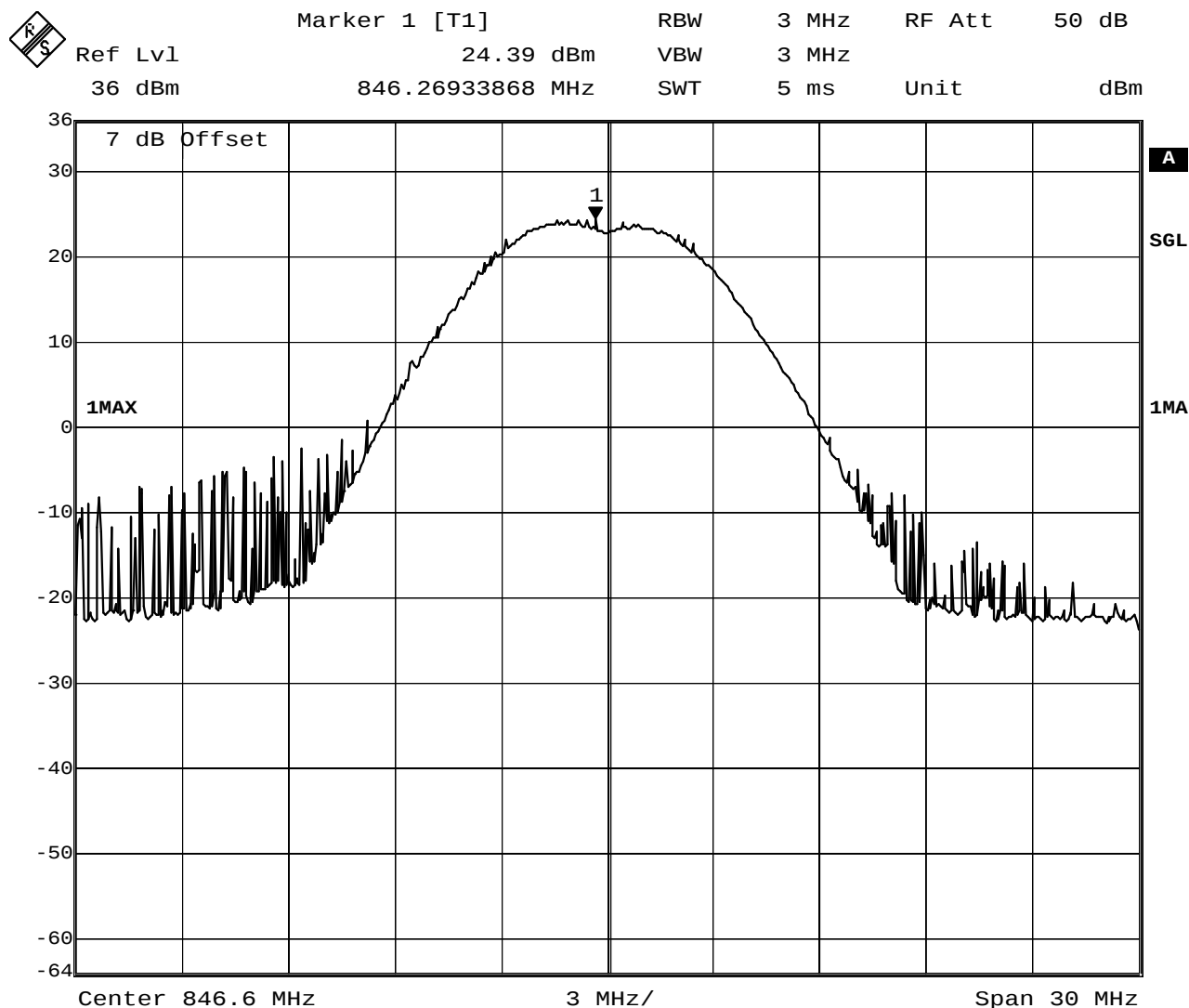
Date: 18.FEB.2009 17:29:02

Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4232
Comment 2	HSDPA subtest 3
Comment 3	



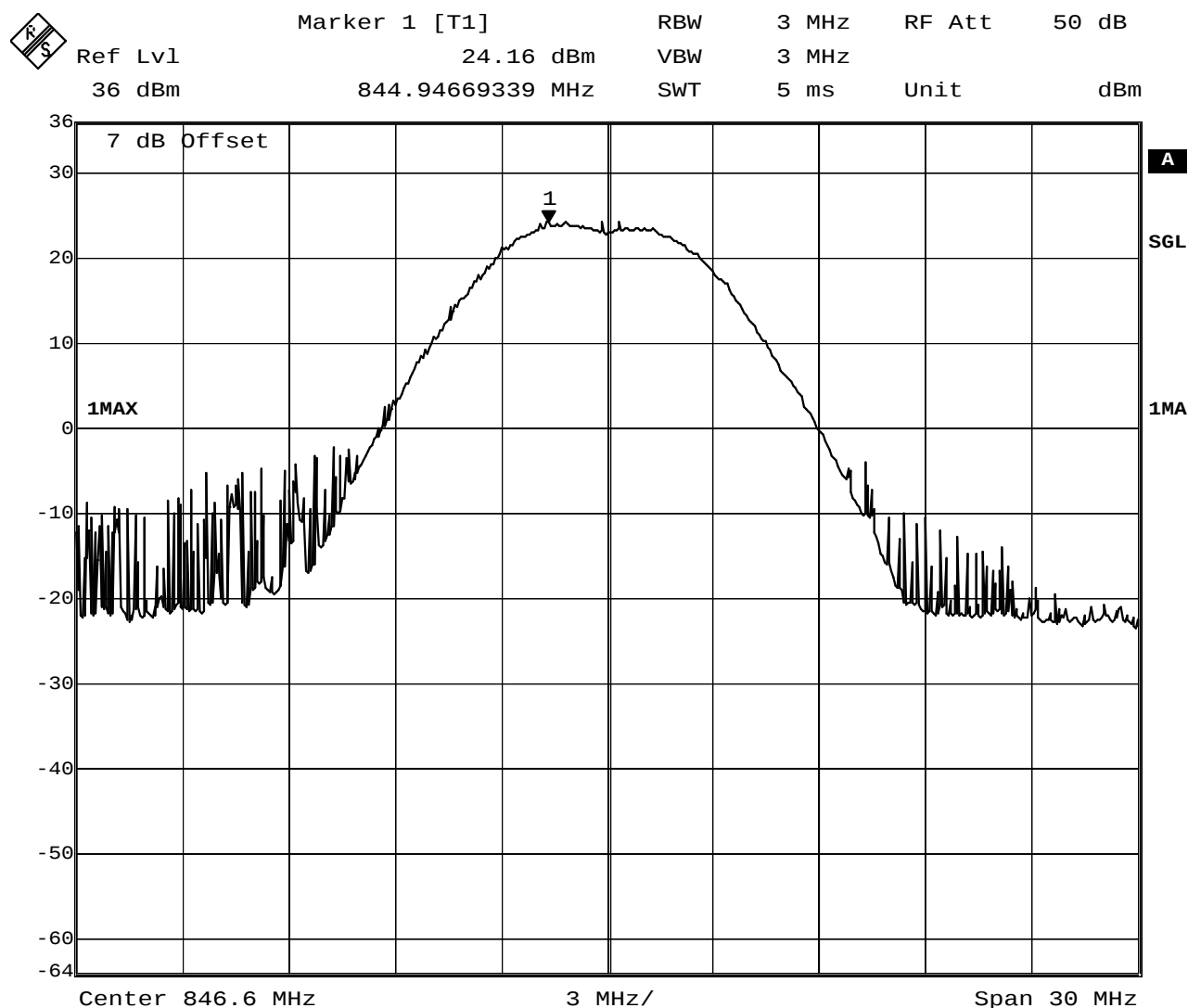
Date: 18.FEB.2009 17:29:48

Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4232
Comment 2	HSDPA subtest 4
Comment 3	



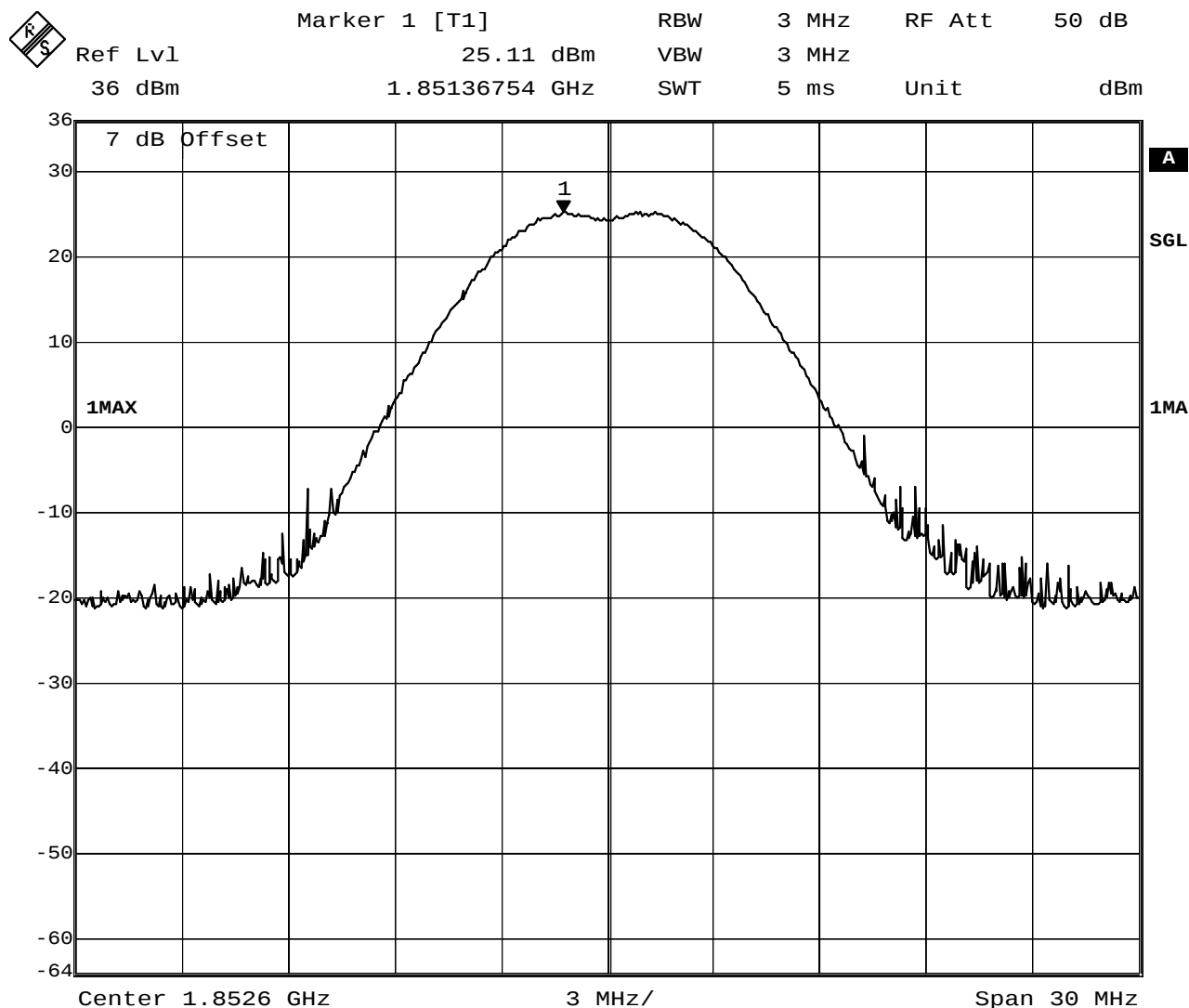
Date: 18.FEB.2009 17:30:38

Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9263
Comment 2	HSUPA subtest 1
Comment 3	



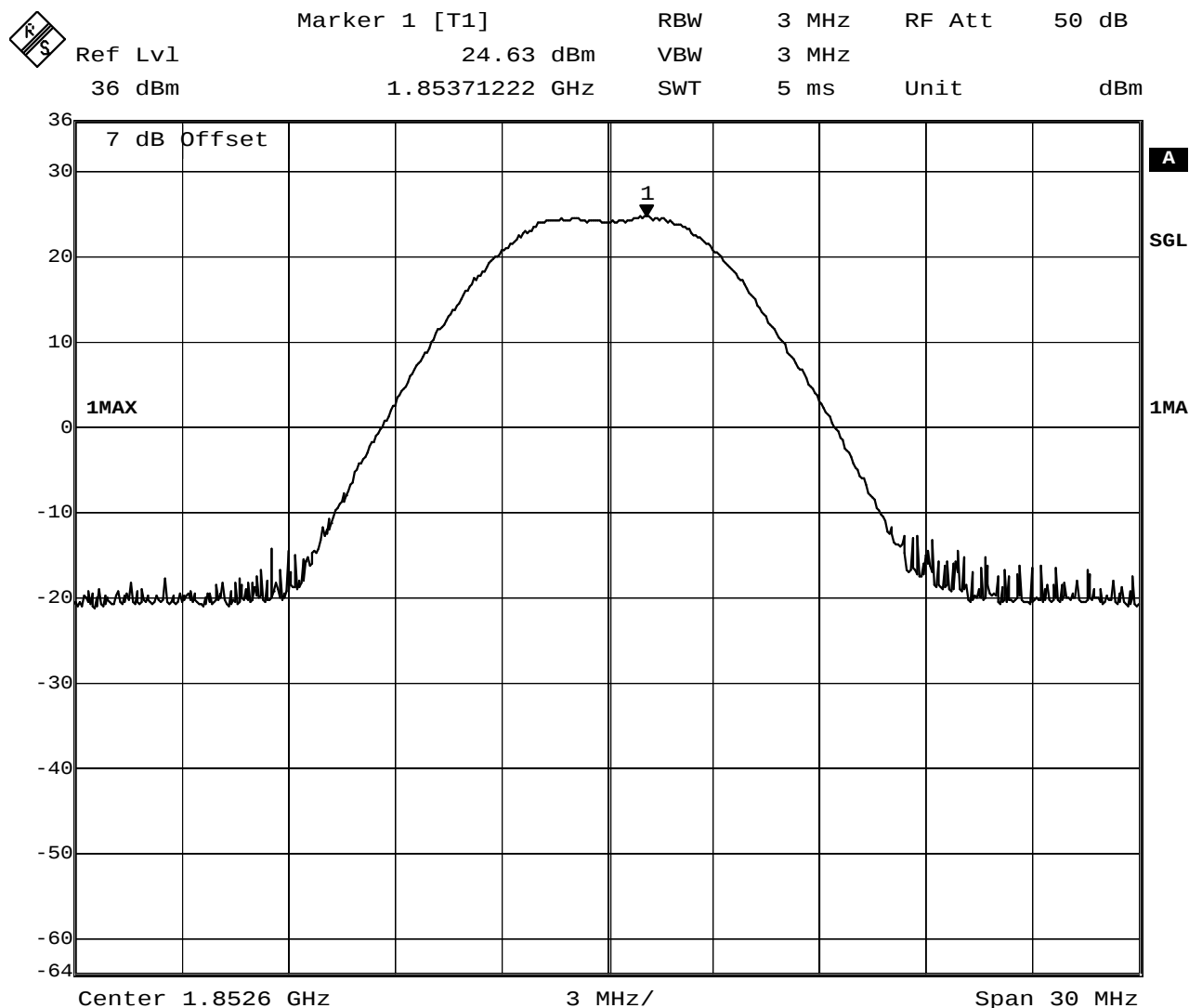
Date: 18.FEB.2009 14:36:50

Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Pfeufer
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9263
Comment 2	HSUPA subtest 2
Comment 3	



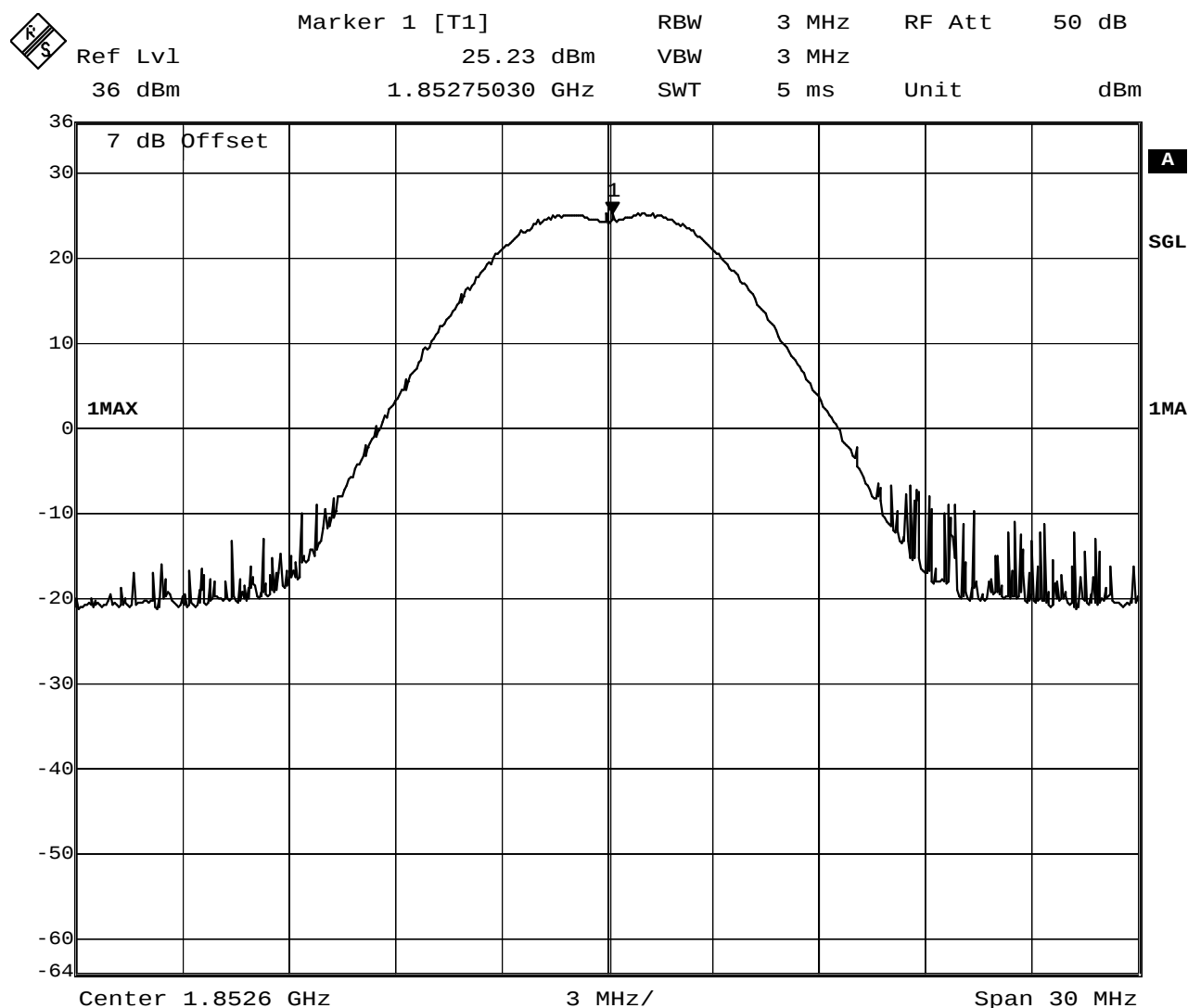
Date: 18.FEB.2009 14:39:40

Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9263
Comment 2	HSUPA subtest 3
Comment 3	



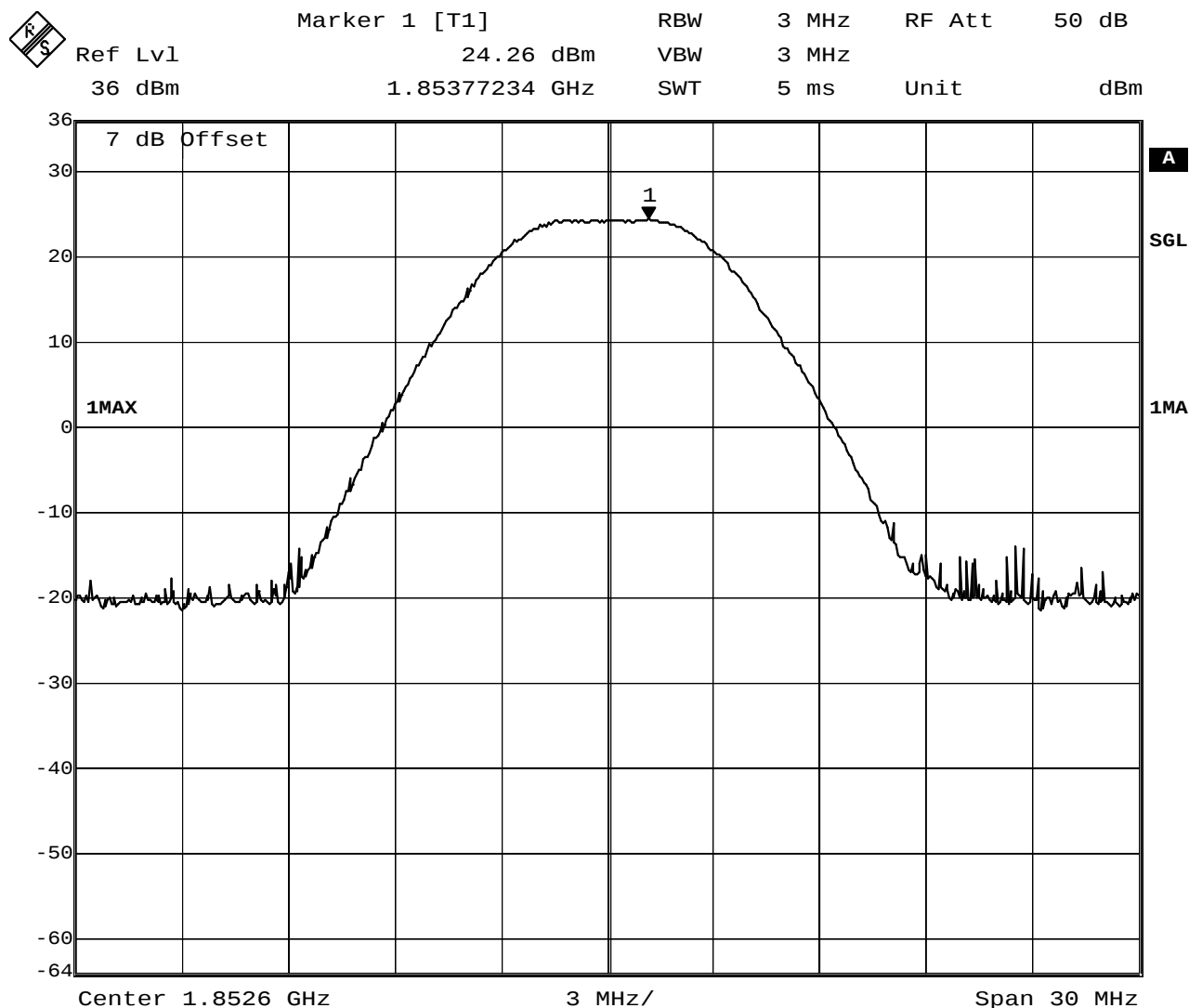
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Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9263
Comment 2	HSUPA subtest 4
Comment 3	



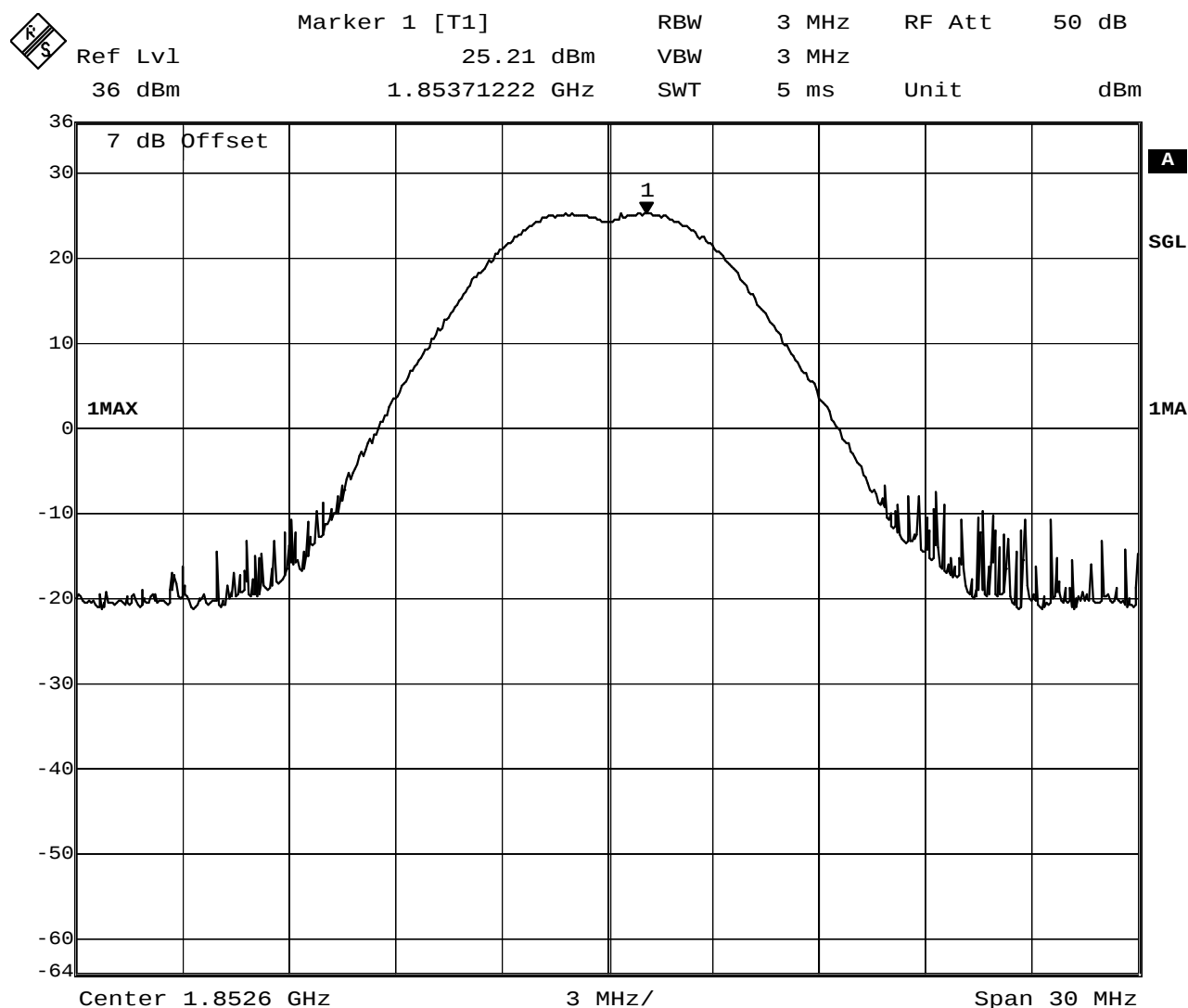
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Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9263
Comment 2	HSUPA subtest 5
Comment 3	



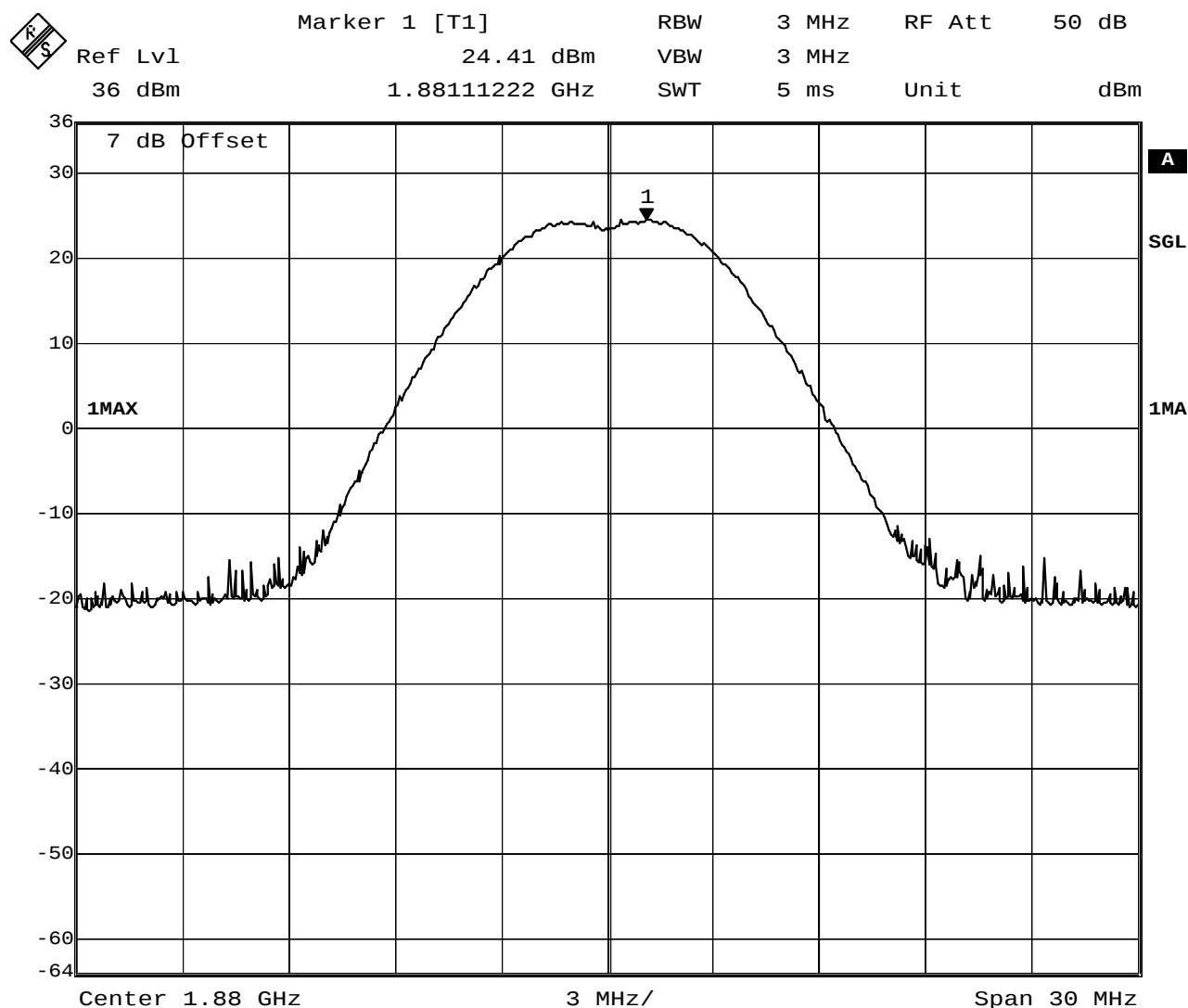
Date: 18.FEB.2009 14:43:10

Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9400
Comment 2	HSUPA subtest 1
Comment 3	



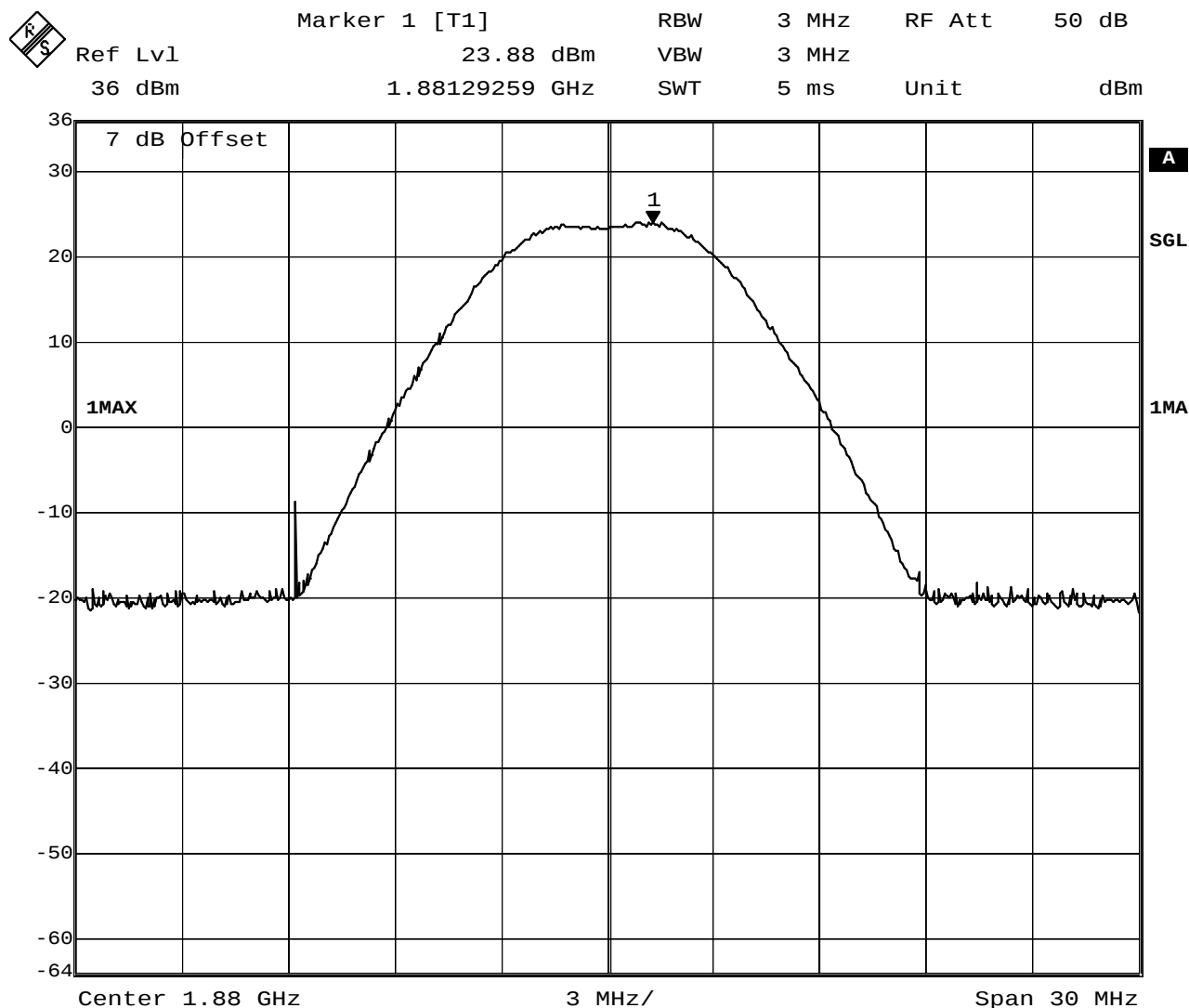
Date: 18.FEB.2009 14:57:01

Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9400
Comment 2	HSUPA subtest 2
Comment 3	



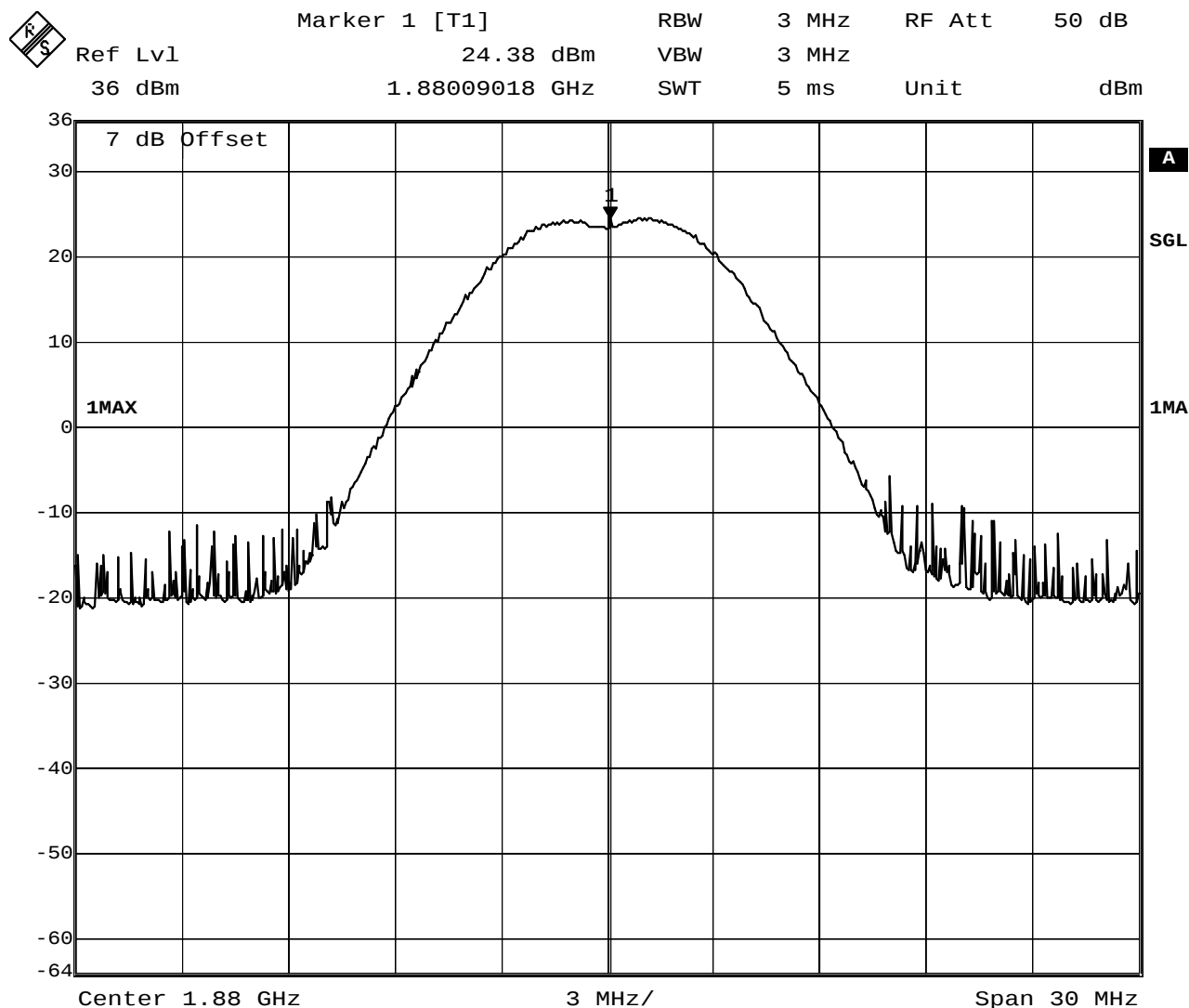
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Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9400
Comment 2	HSUPA subtest 3
Comment 3	



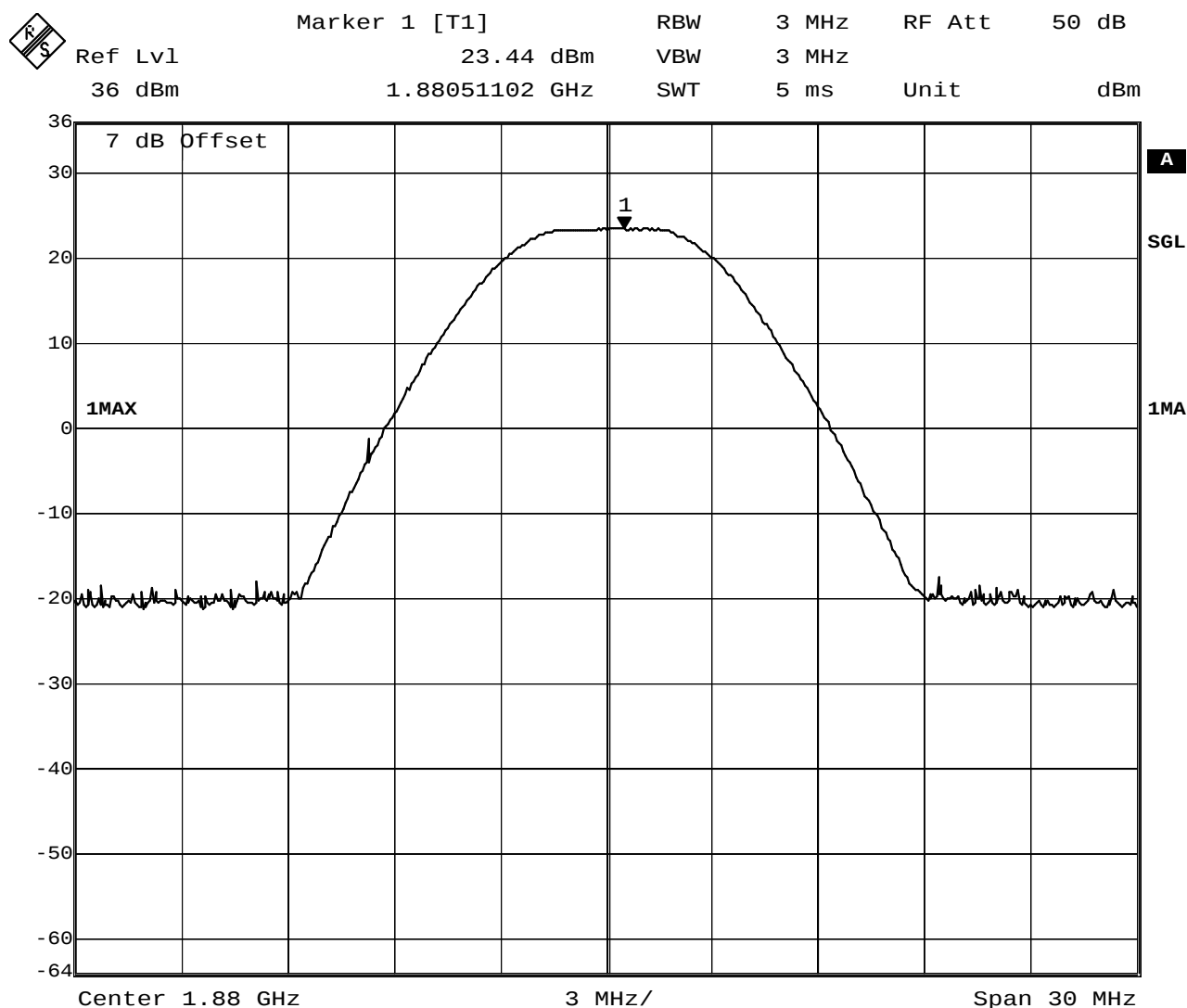
Date: 18.FEB.2009 15:01:19

Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9400
Comment 2	HSUPA subtest 4
Comment 3	



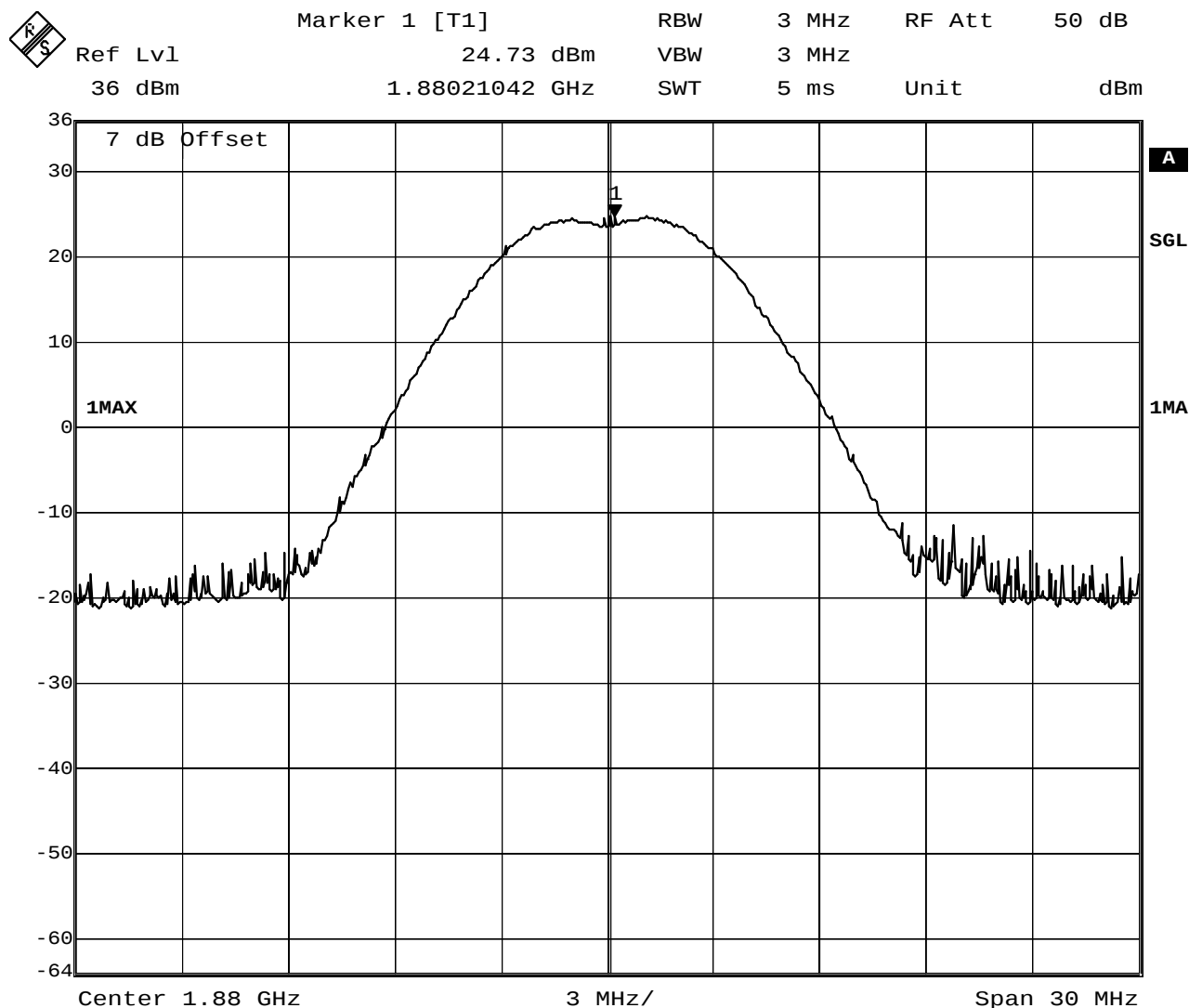
Date: 18.FEB.2009 15:02:14

Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9400
Comment 2	HSUPA subtest 5
Comment 3	



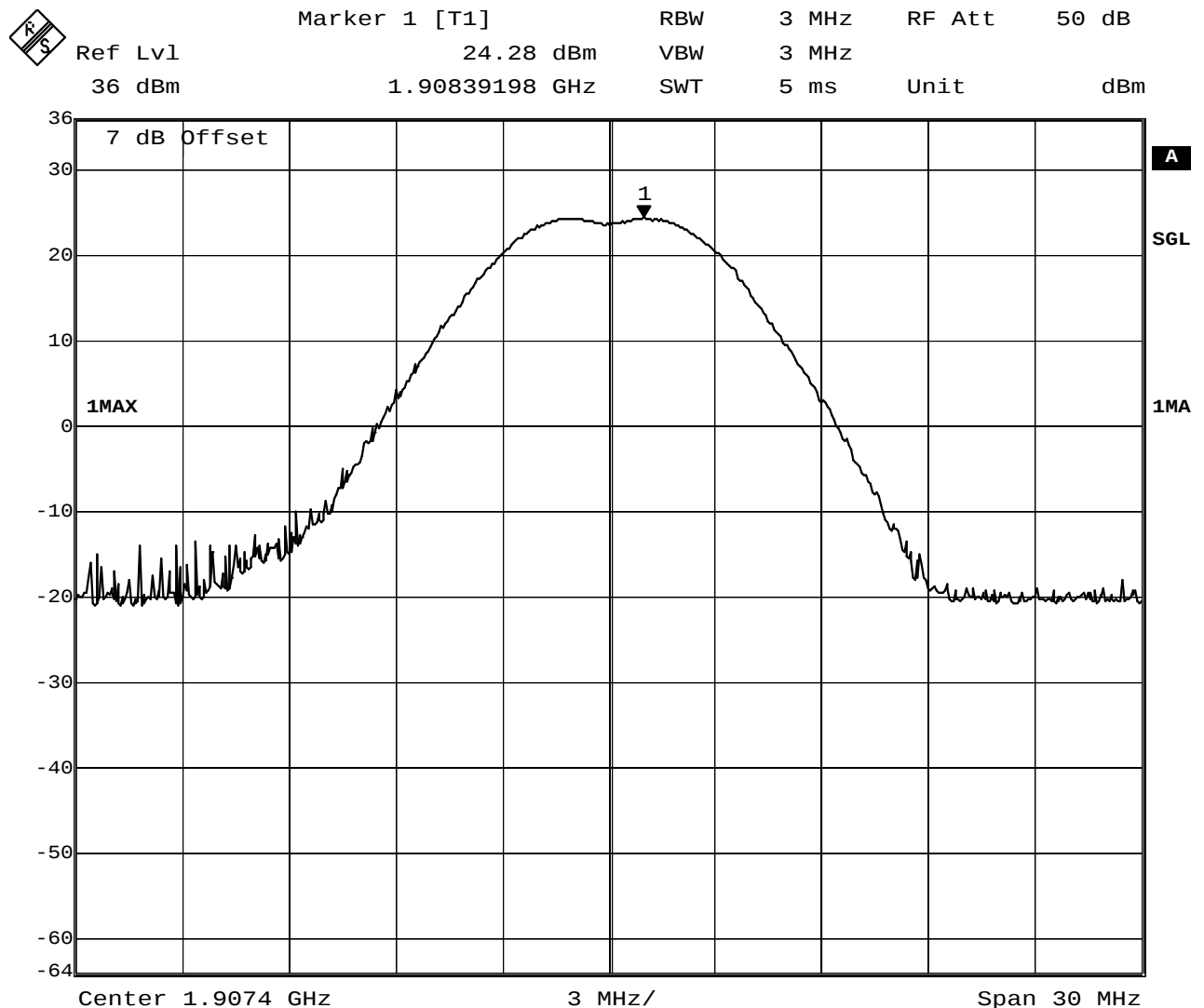
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Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9537
Comment 2	HSUPA subtest 1
Comment 3	



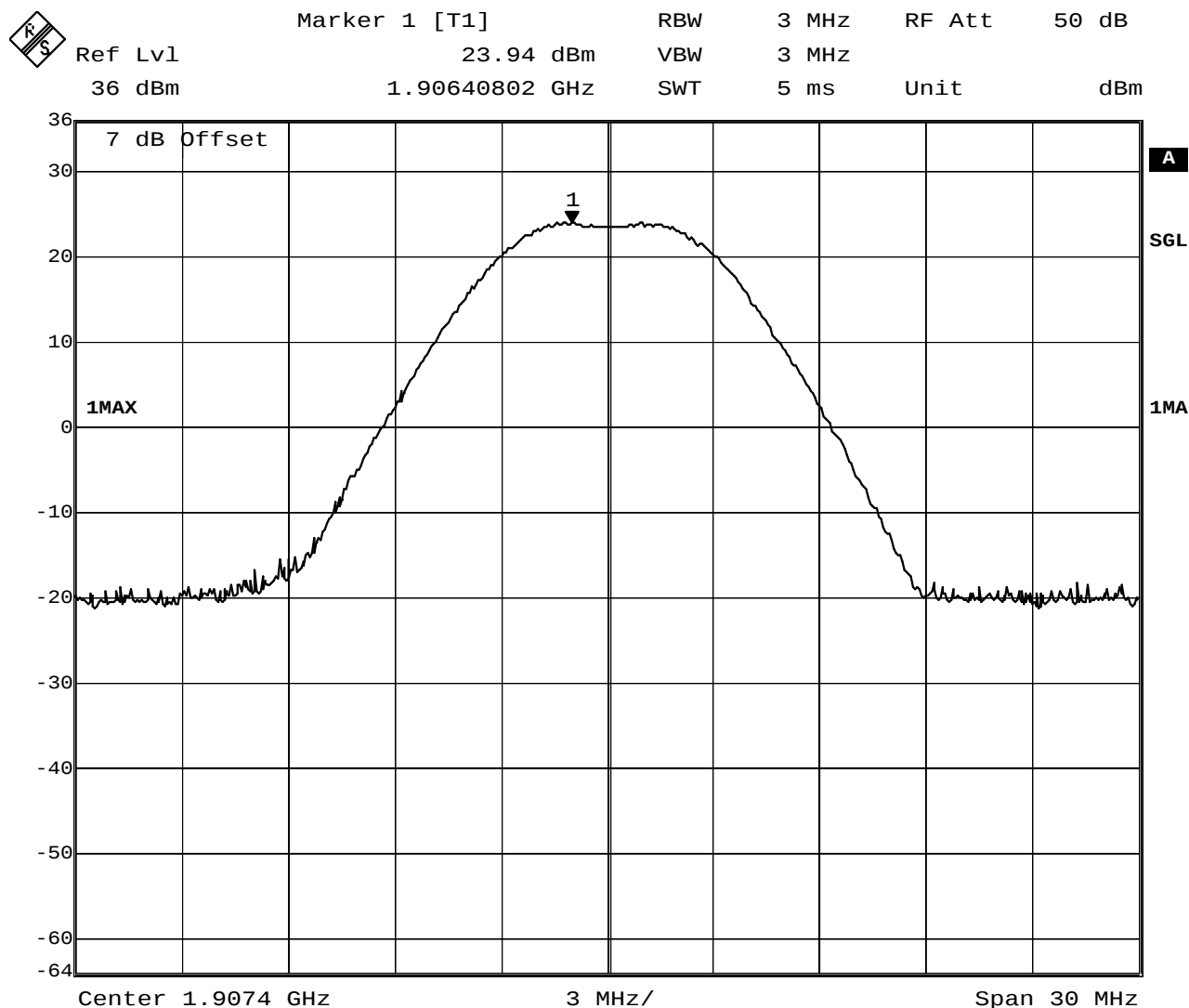
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Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9537
Comment 2	HSUPA subtest 2
Comment 3	



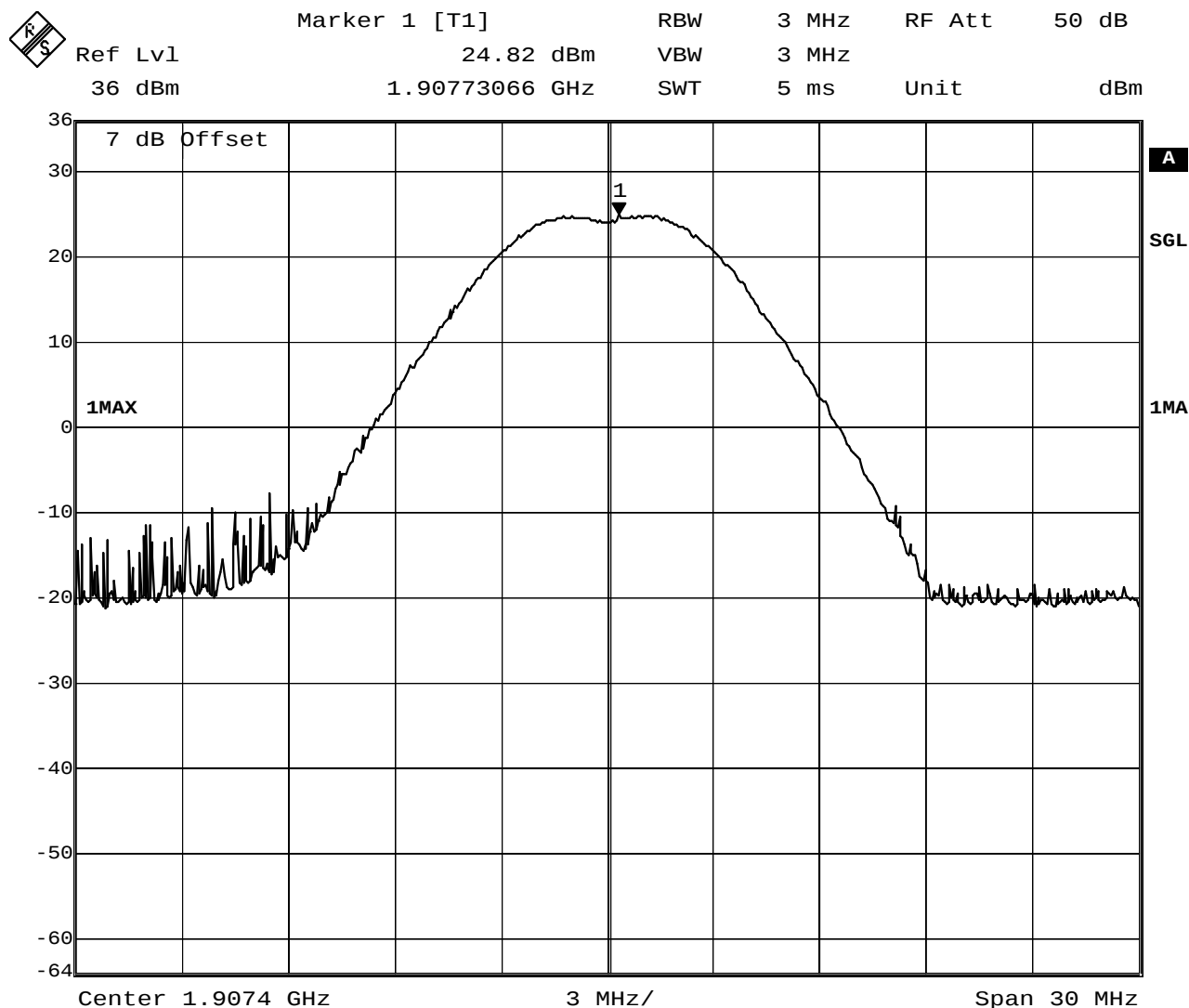
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Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9537
Comment 2	HSUPA subtest 3
Comment 3	



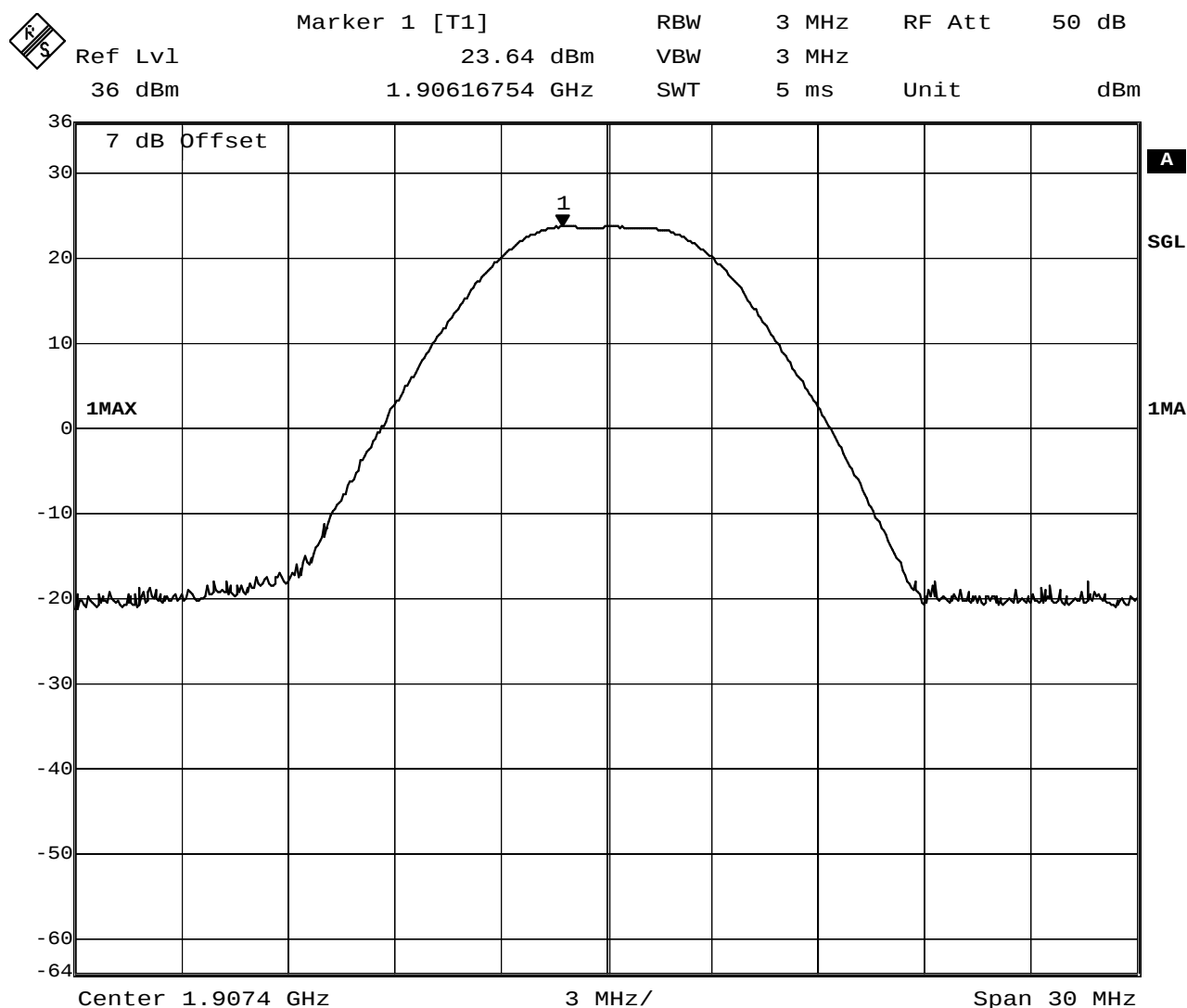
Date: 18.FEB.2009 15:06:36

Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9537
Comment 2	HSUPA subtest 4
Comment 3	



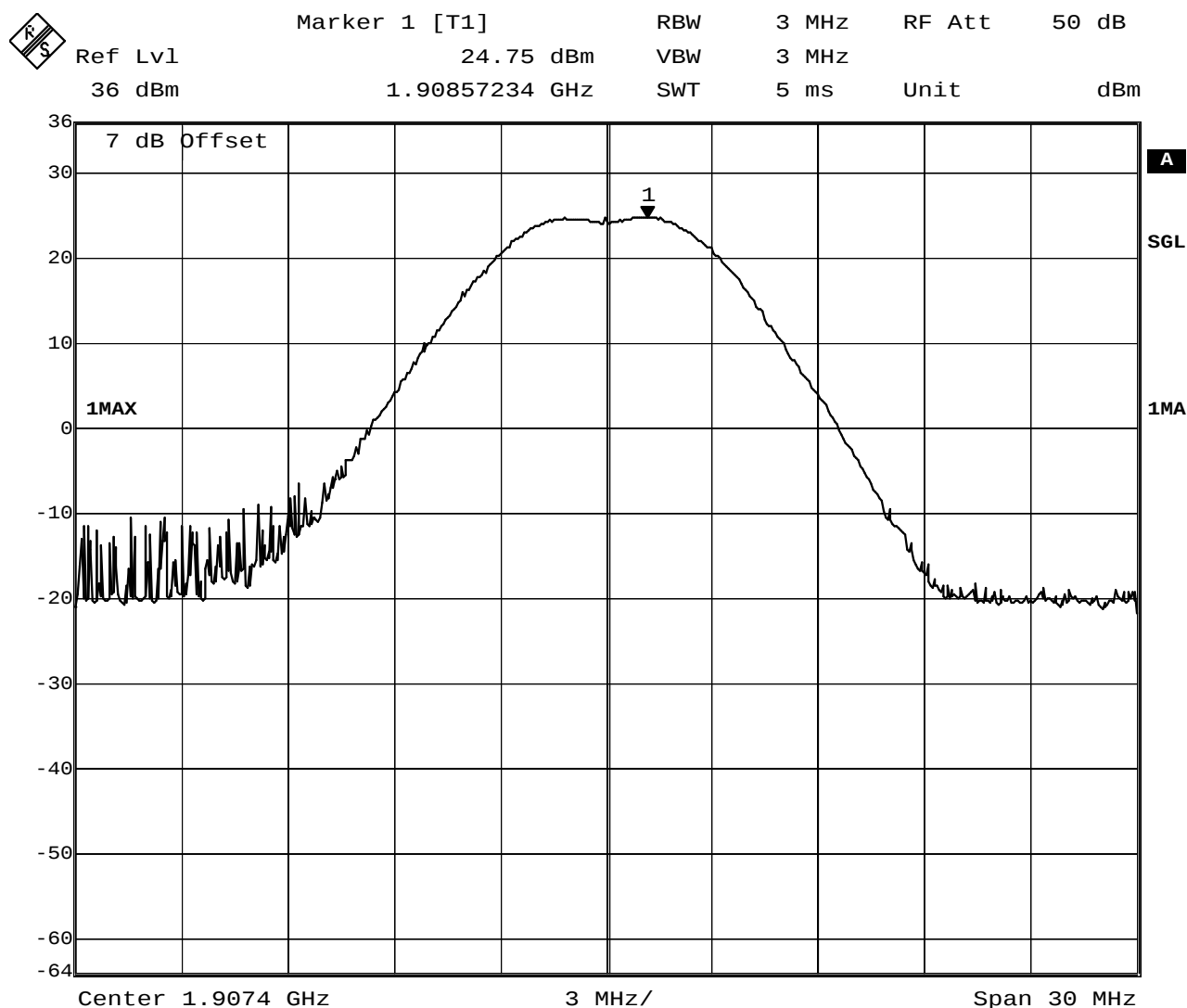
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Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9537
Comment 2	HSUPA subtest 5
Comment 3	



Date: 18.FEB.2009 15:08:26

Measurement diagram

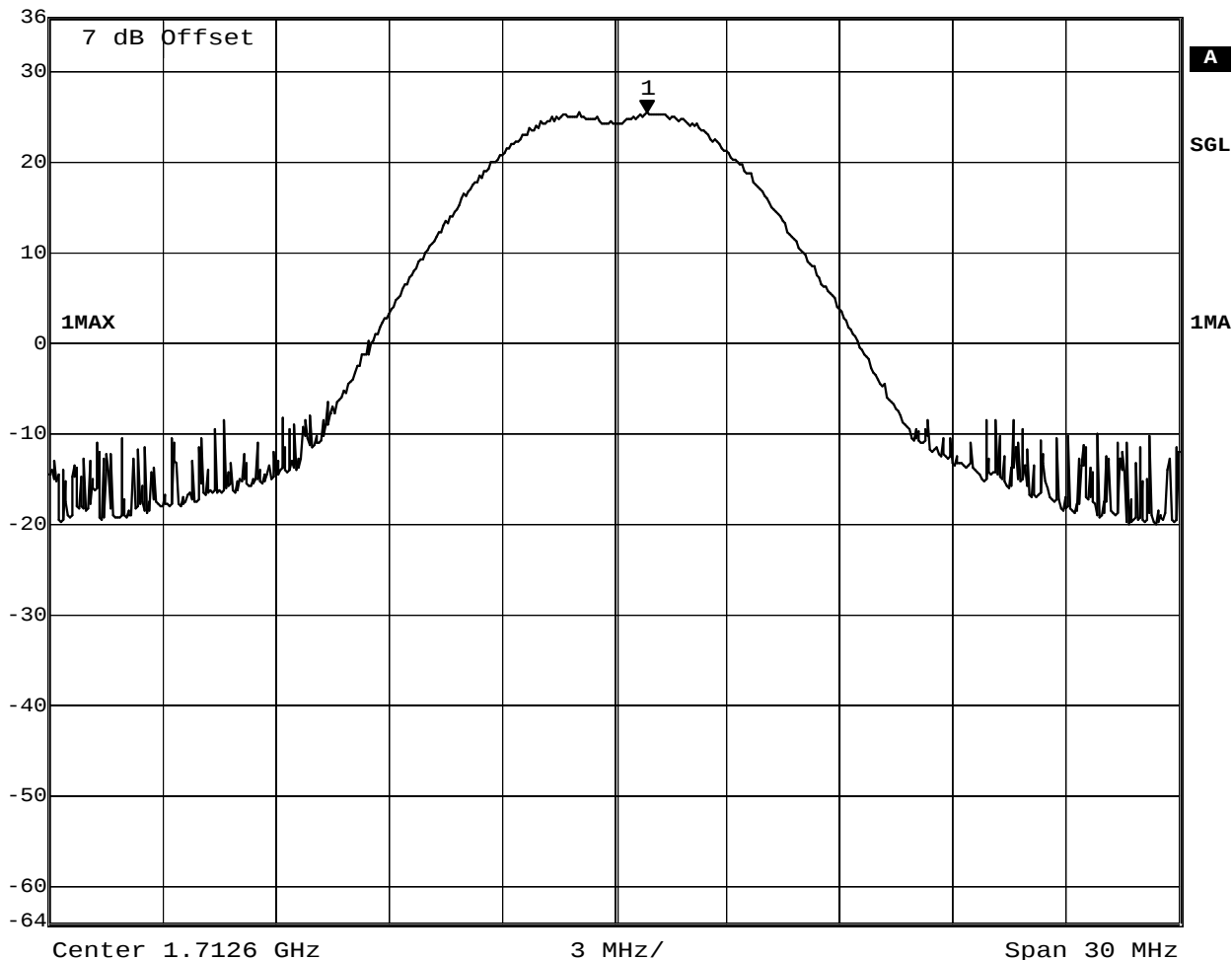
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1313
Comment 2	HSUPA subtest 1
Comment 3	



Marker 1 [T1]	RBW	3 MHz	RF Att	50 dB
Ref Lvl	25.41 dBm	VBW	3 MHz	
36 dBm	1.71347174 GHz	SWT	5 ms	Unit dBm



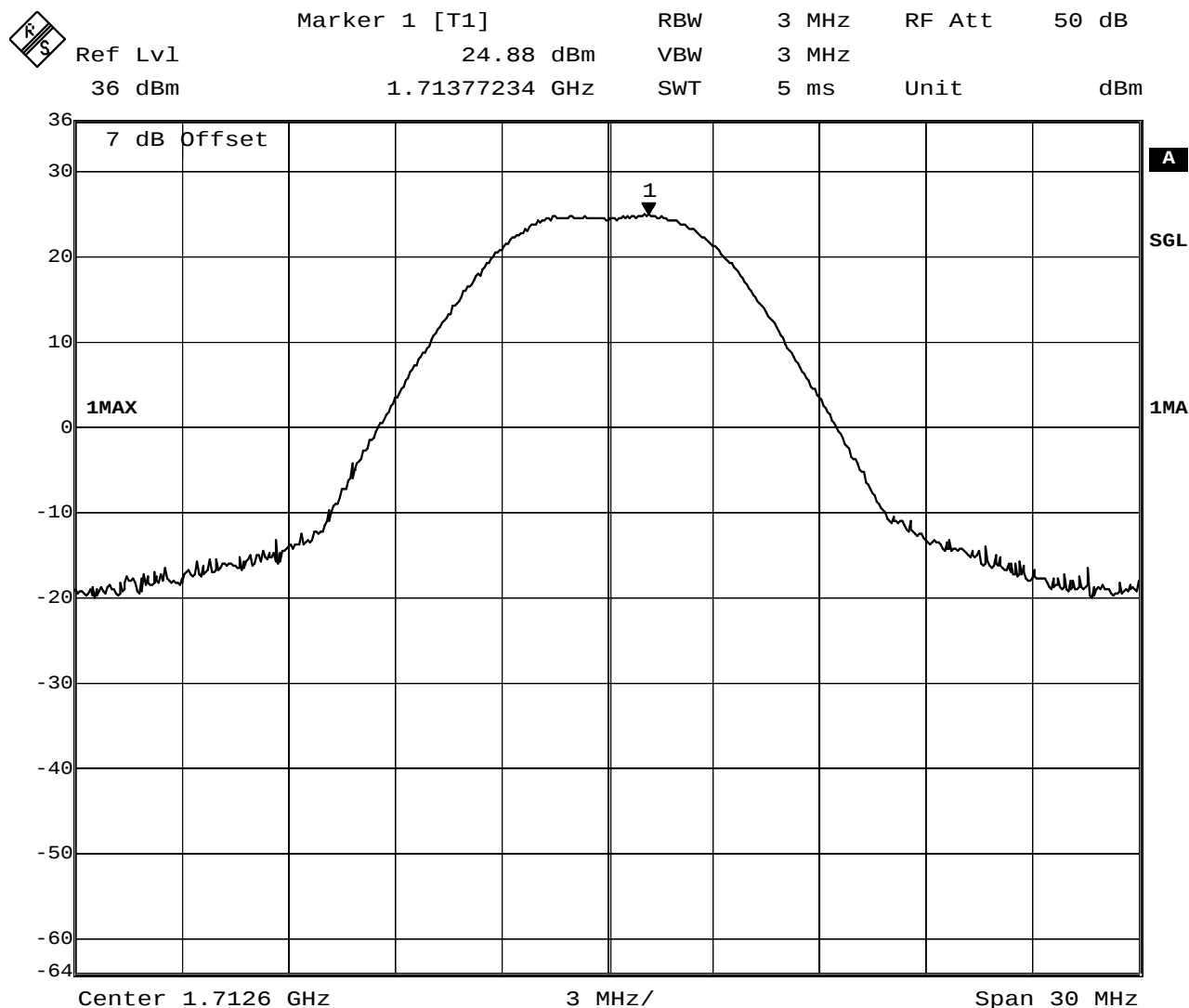
Date: 18.FEB.2009 16:34:57

Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1313
Comment 2	HSUPA subtest 2
Comment 3	



Date: 18.FEB.2009 16:50:21

Measurement diagram

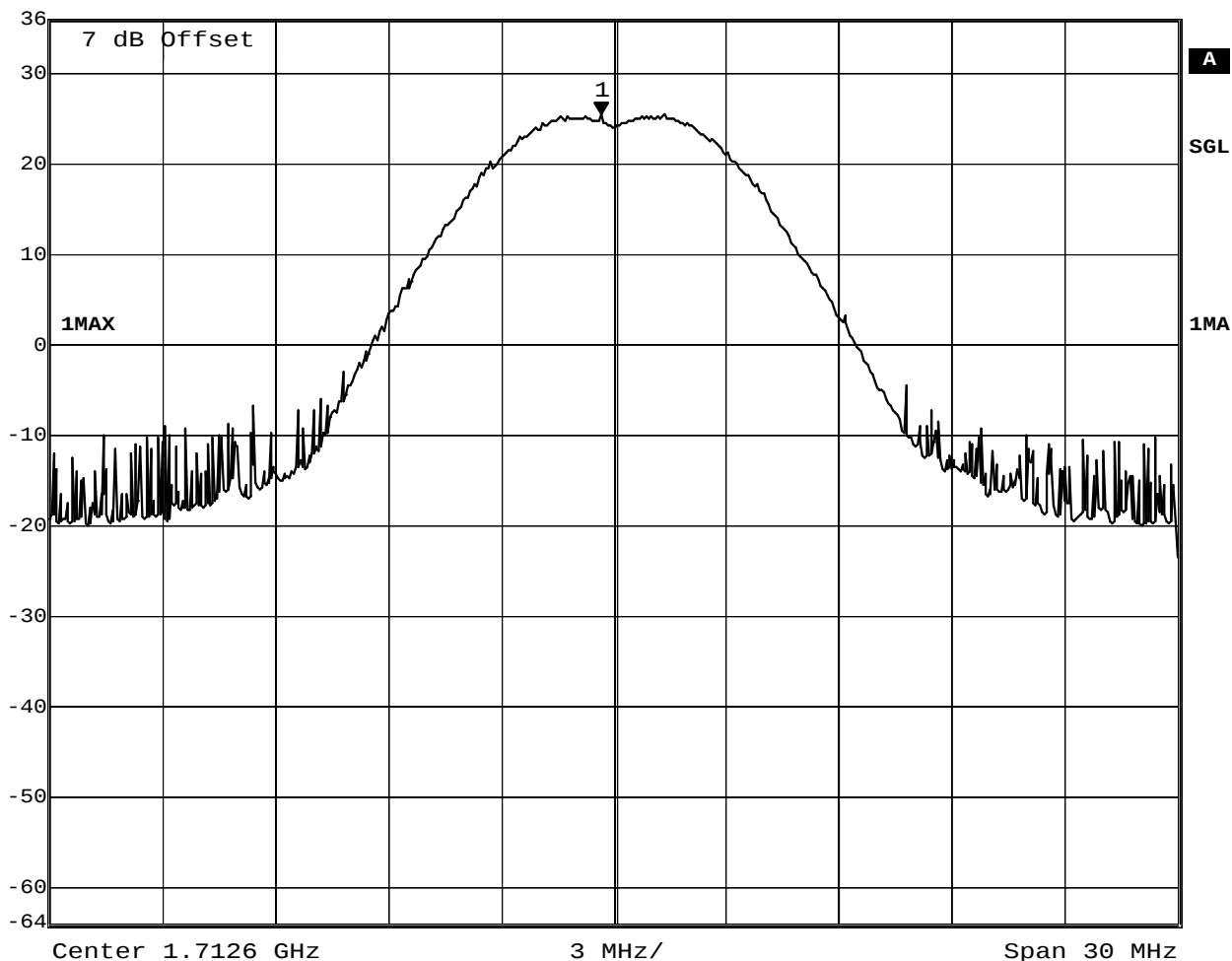
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1313
Comment 2	HSUPA subtest 3
Comment 3	



Ref Lvl	Marker 1 [T1]	RBW	3 MHz	RF Att	50 dB
36 dBm	25.35 dBm	VBW	3 MHz		
	1.71226934 GHz	SWT	5 ms	Unit	dBm



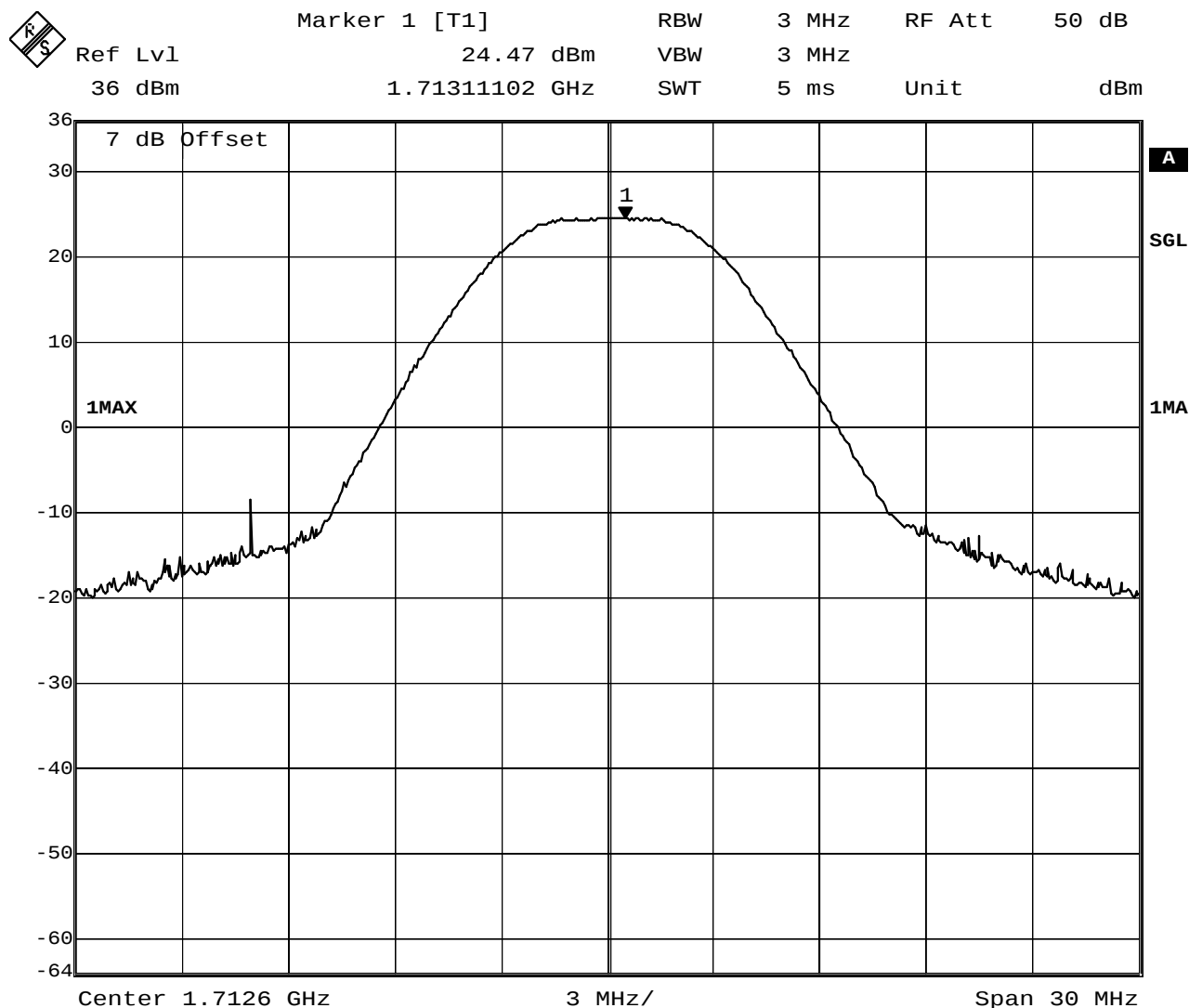
Date: 18.FEB.2009 16:51:04

Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1313
Comment 2	HSUPA subtest 4
Comment 3	



Date: 18.FEB.2009 16:51:41

Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

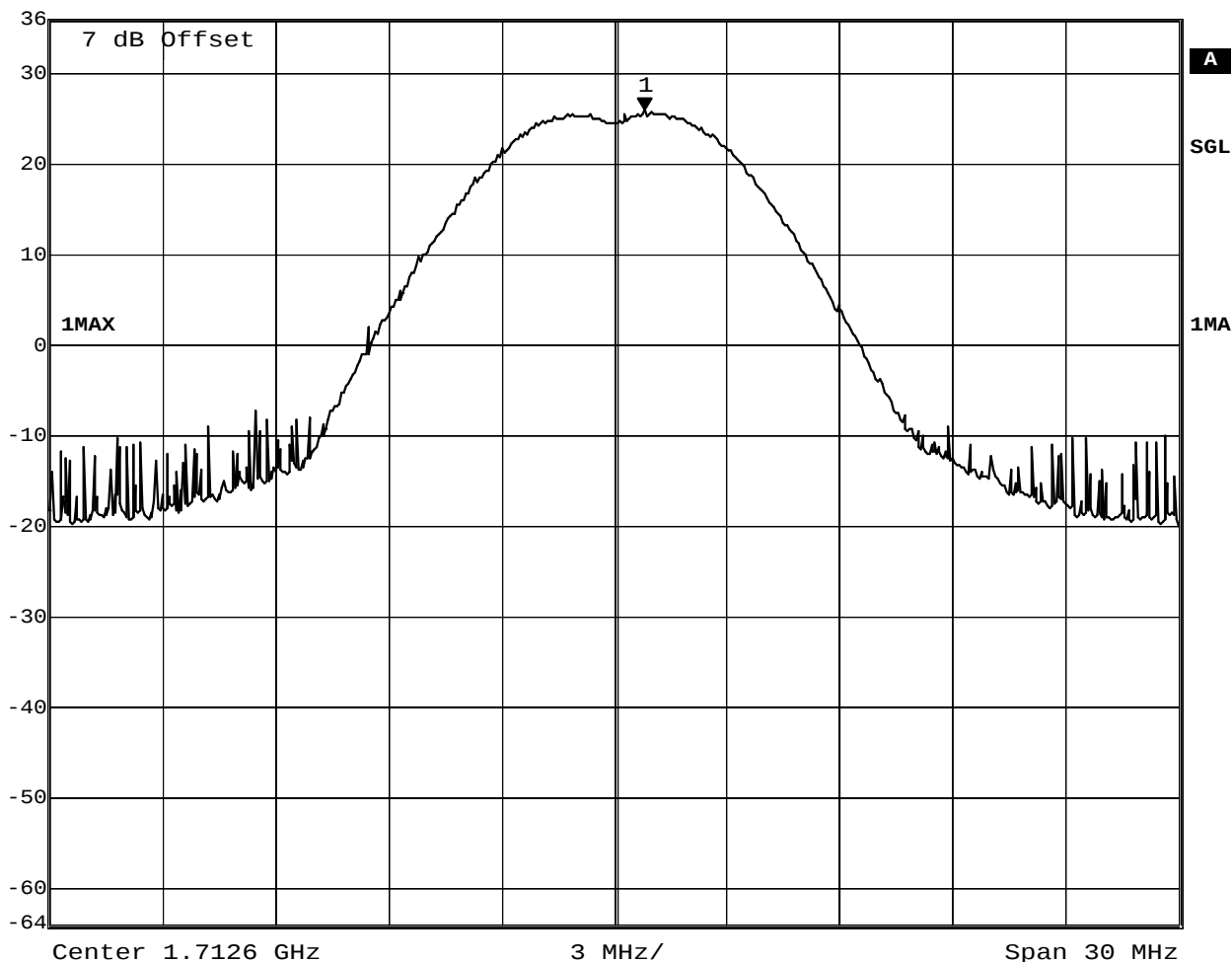
FCC Part 27C

Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1313
Comment 2	HSUPA subtest 5
Comment 3	



Marker 1 [T1]	RBW	3 MHz	RF Att	50 dB
Ref Lvl	25.92 dBm	VBW	3 MHz	
36 dBm	1.71341162 GHz	SWT	5 ms	Unit dBm



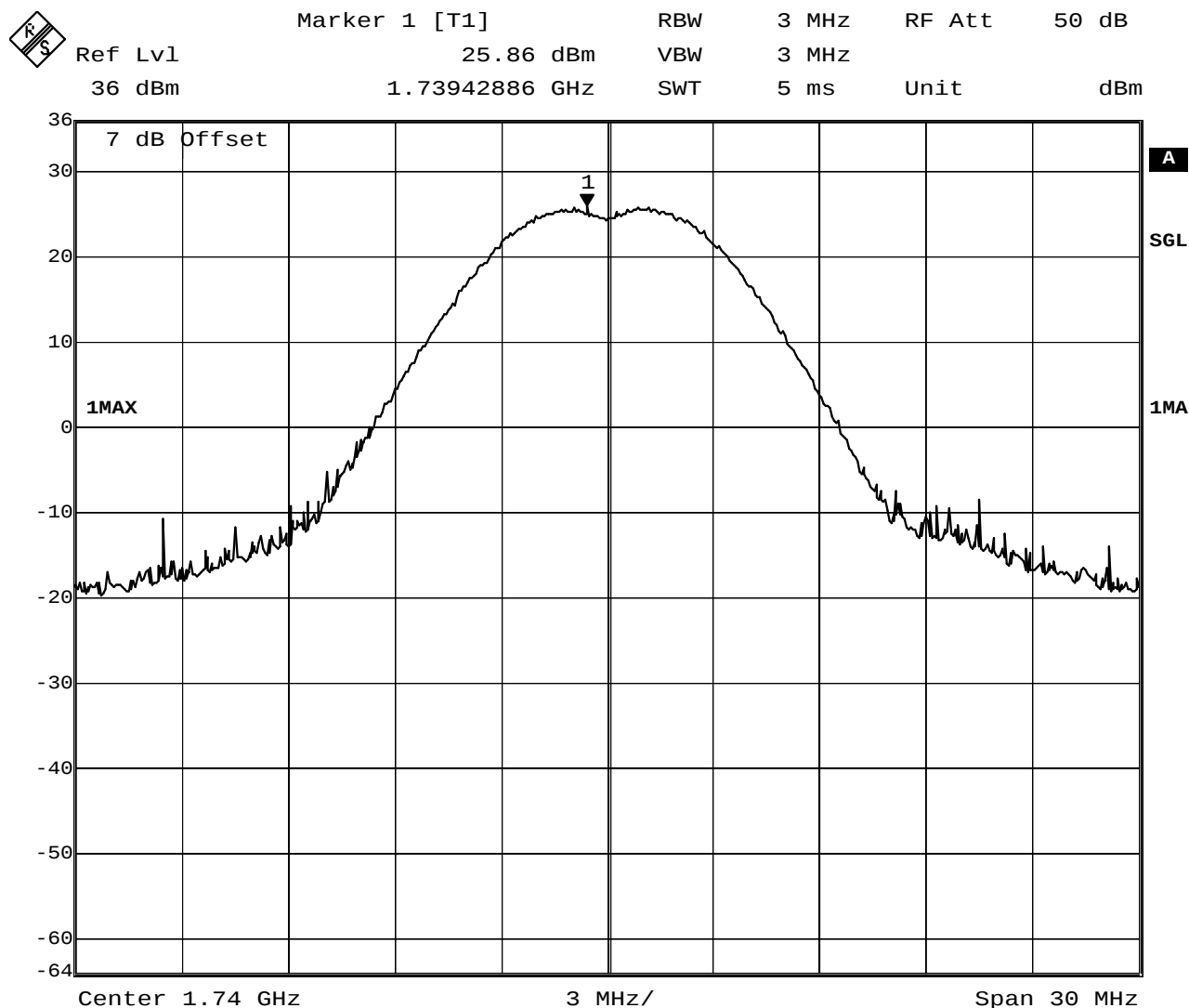
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Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1450
Comment 2	HSUPA subtest 1
Comment 3	



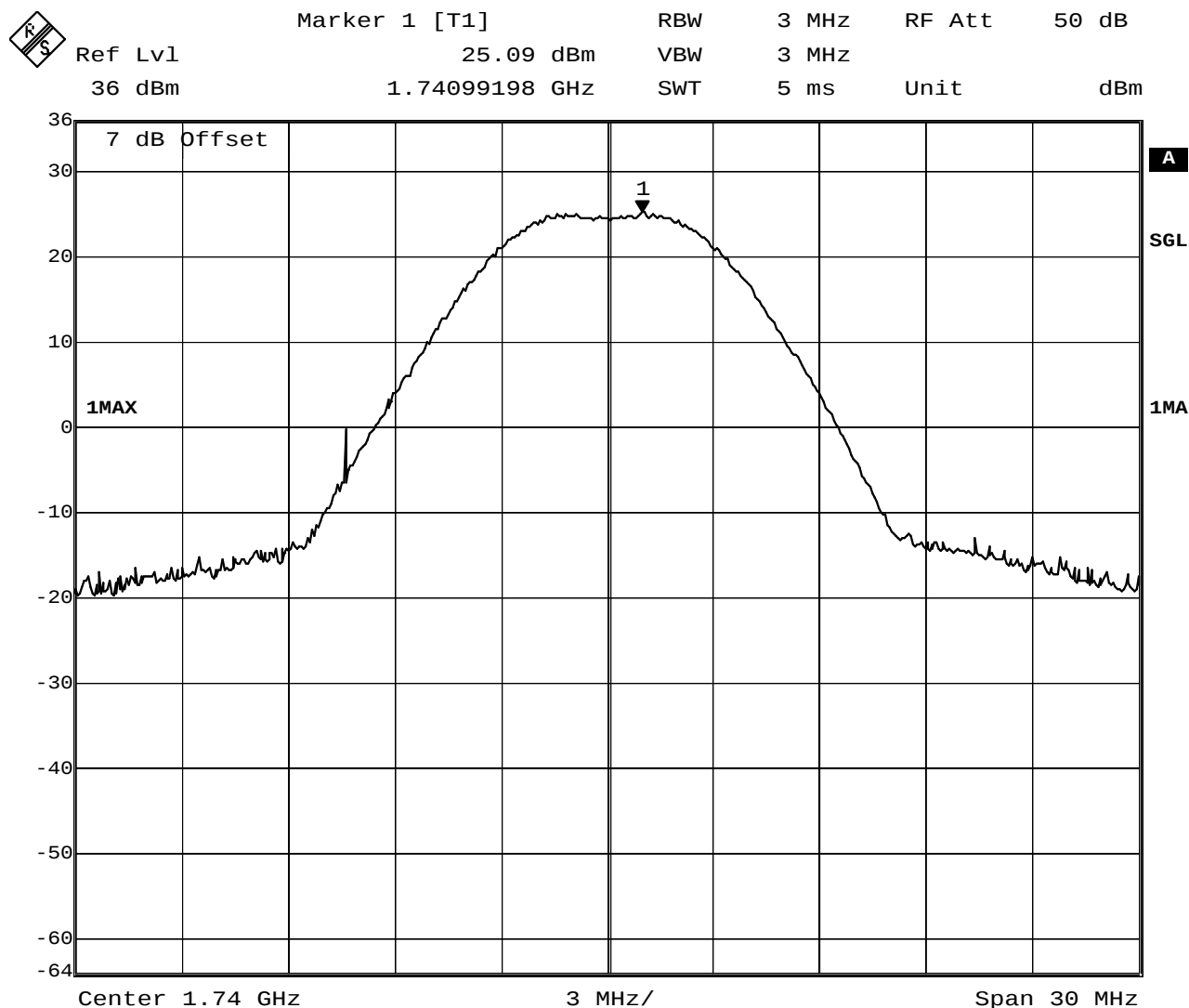
Date: 18.FEB.2009 16:39:21

Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1450
Comment 2	HSUPA subtest 2
Comment 3	



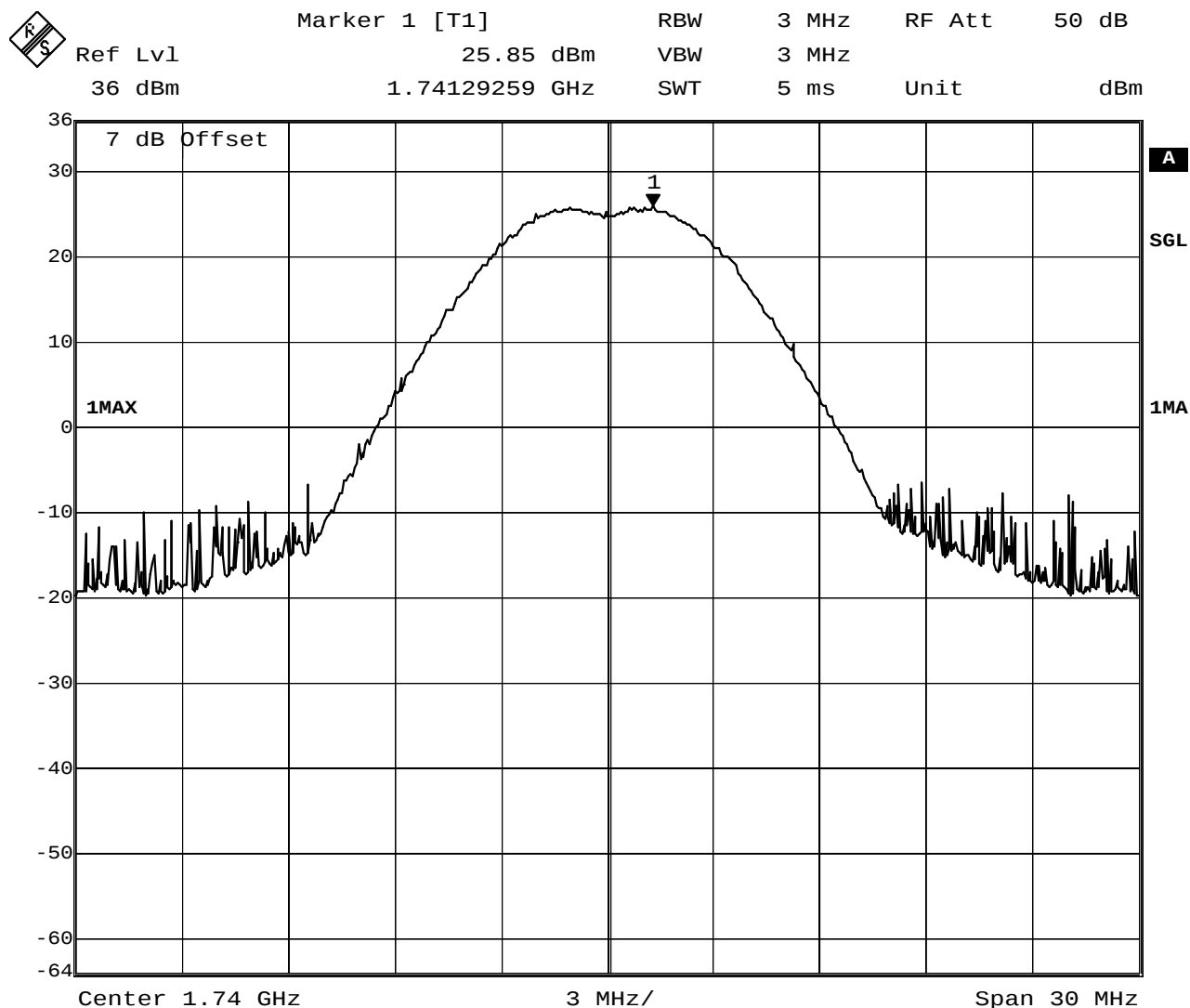
Date: 18.FEB.2009 16:49:30

Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1450
Comment 2	HSUPA subtest 3
Comment 3	



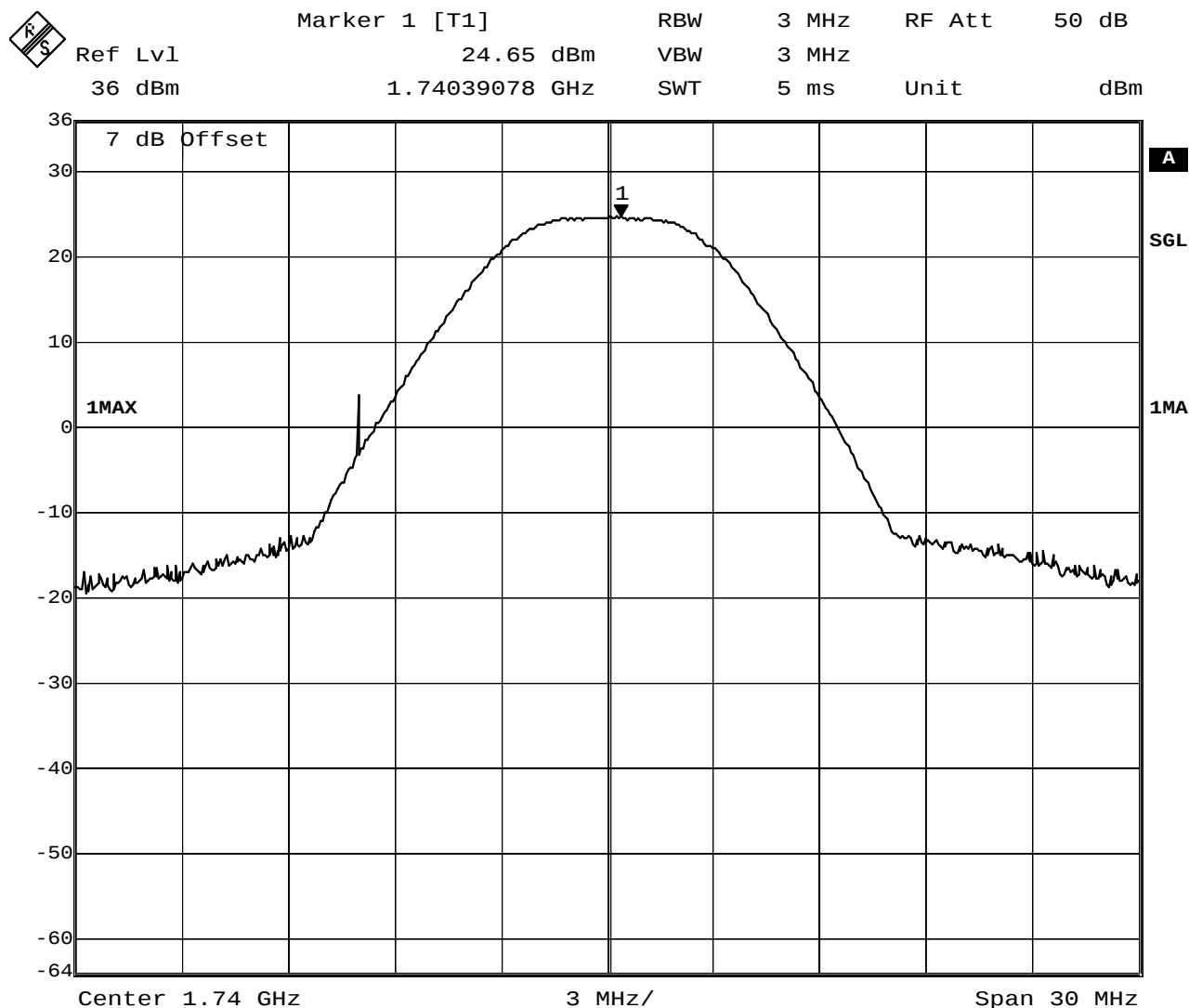
Date: 18.FEB.2009 16:48:49

Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1450
Comment 2	HSUPA subtest 4
Comment 3	



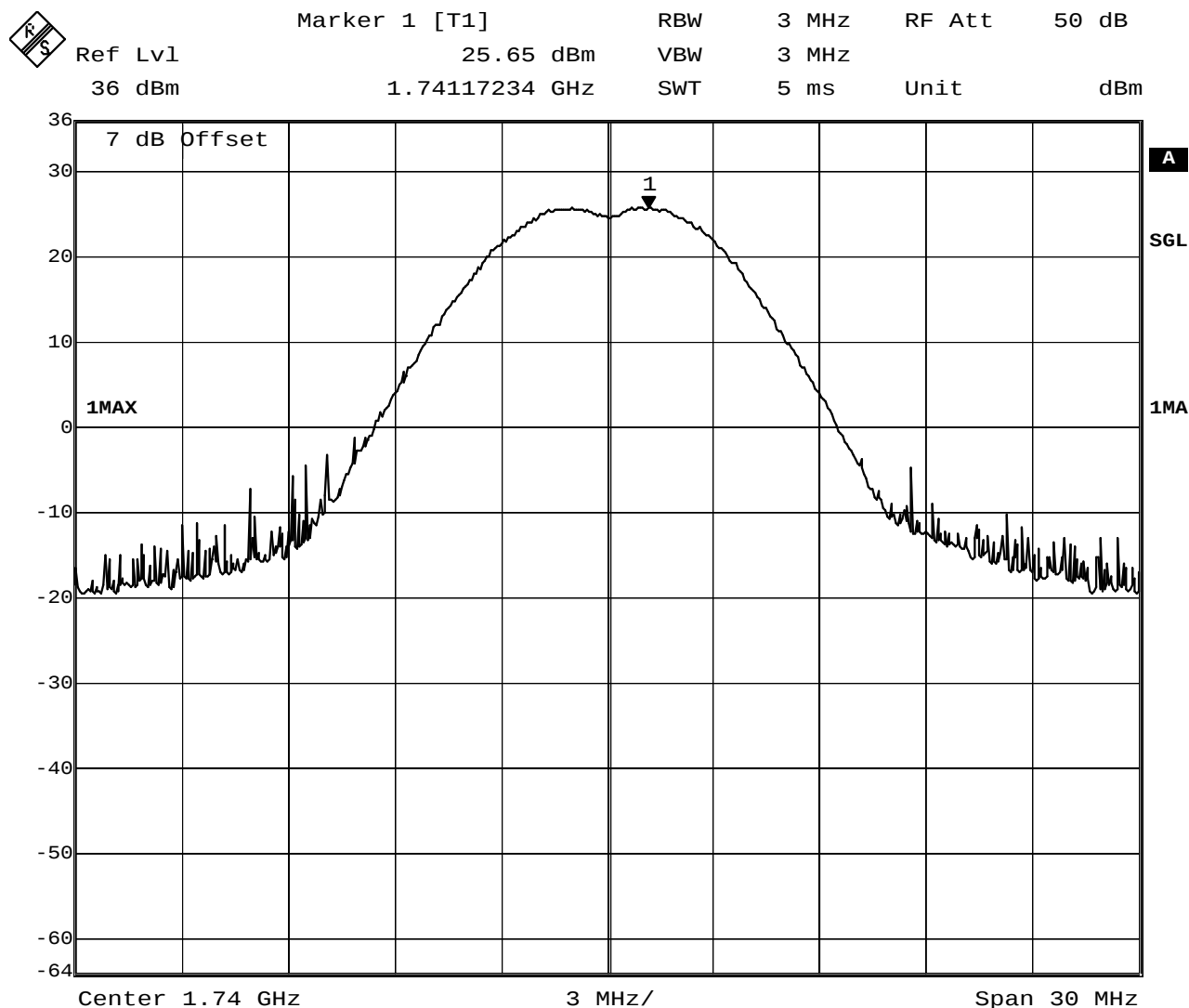
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Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1450
Comment 2	HSUPA subtest 5
Comment 3	



Date: 18.FEB.2009 16:47:20

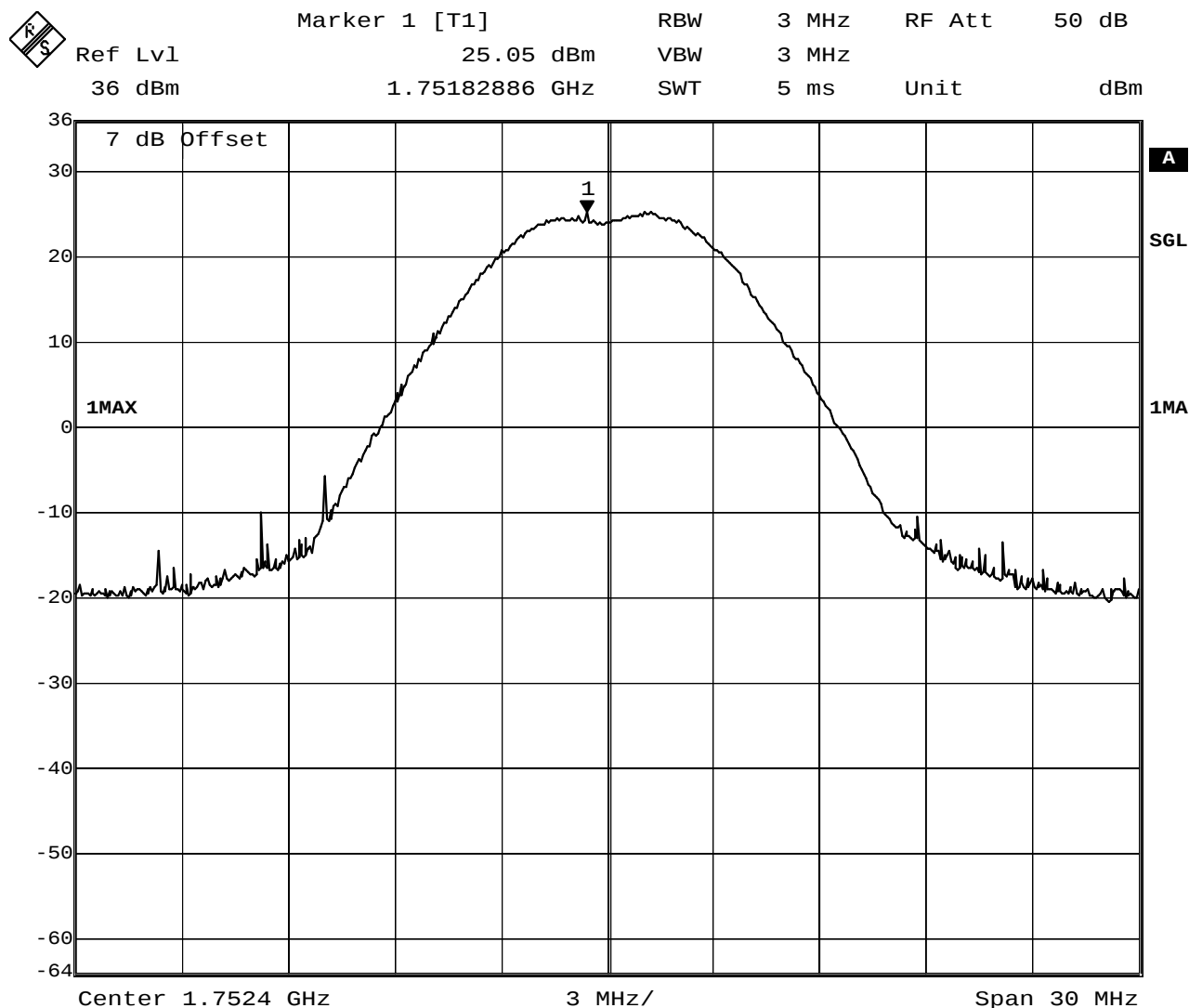
Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C

Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1512
Comment 2	HSUPA subtest 1
Comment 3	



Date: 18.FEB.2009 16:42:39

Measurement diagram

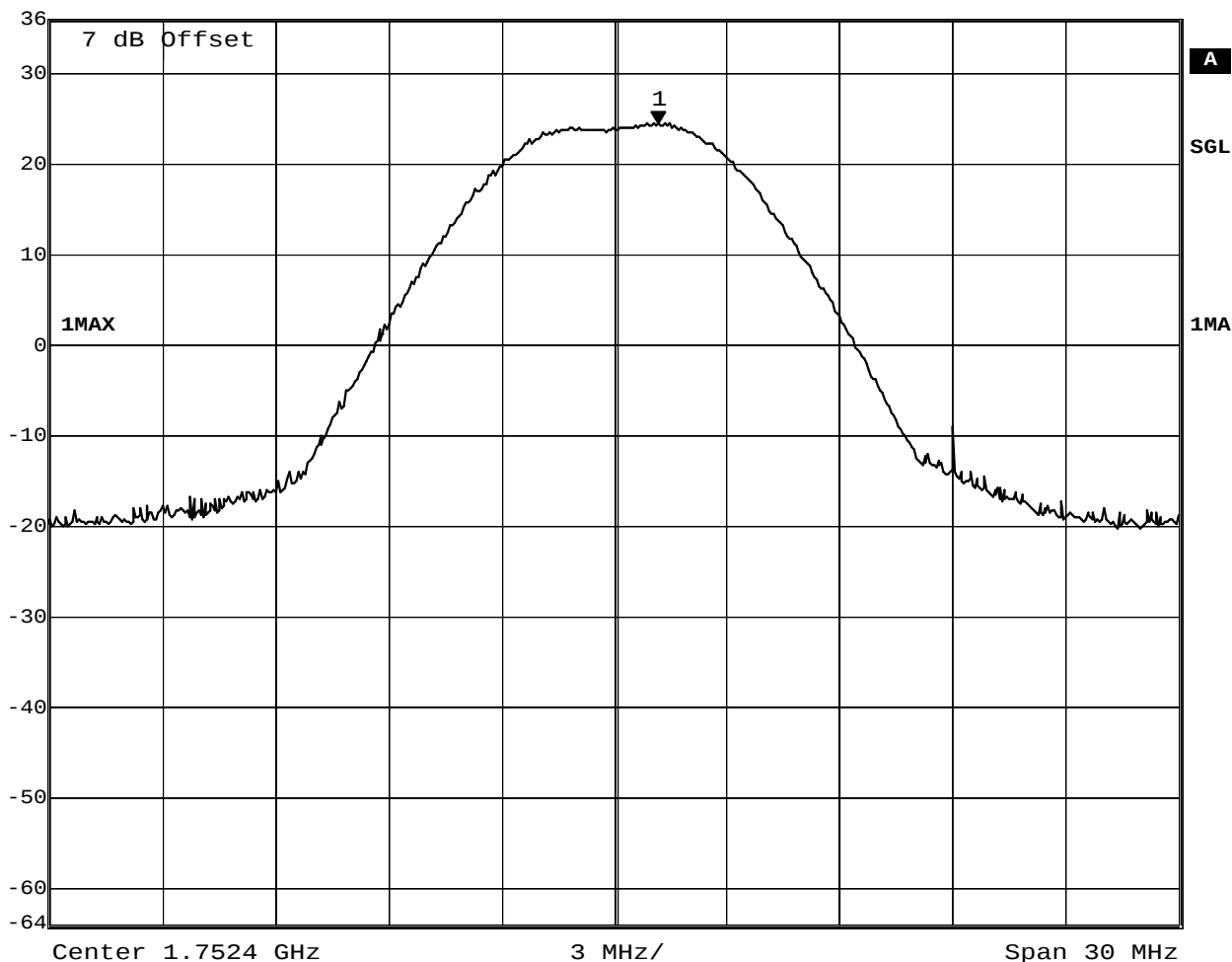
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1512
Comment 2	HSUPA subtest 2
Comment 3	



Ref Lvl	Marker 1 [T1]	RBW	3 MHz	RF Att	50 dB
36 dBm	24.49 dBm	VBW	3 MHz		
	1.75357234 GHz	SWT	5 ms	Unit	dBm



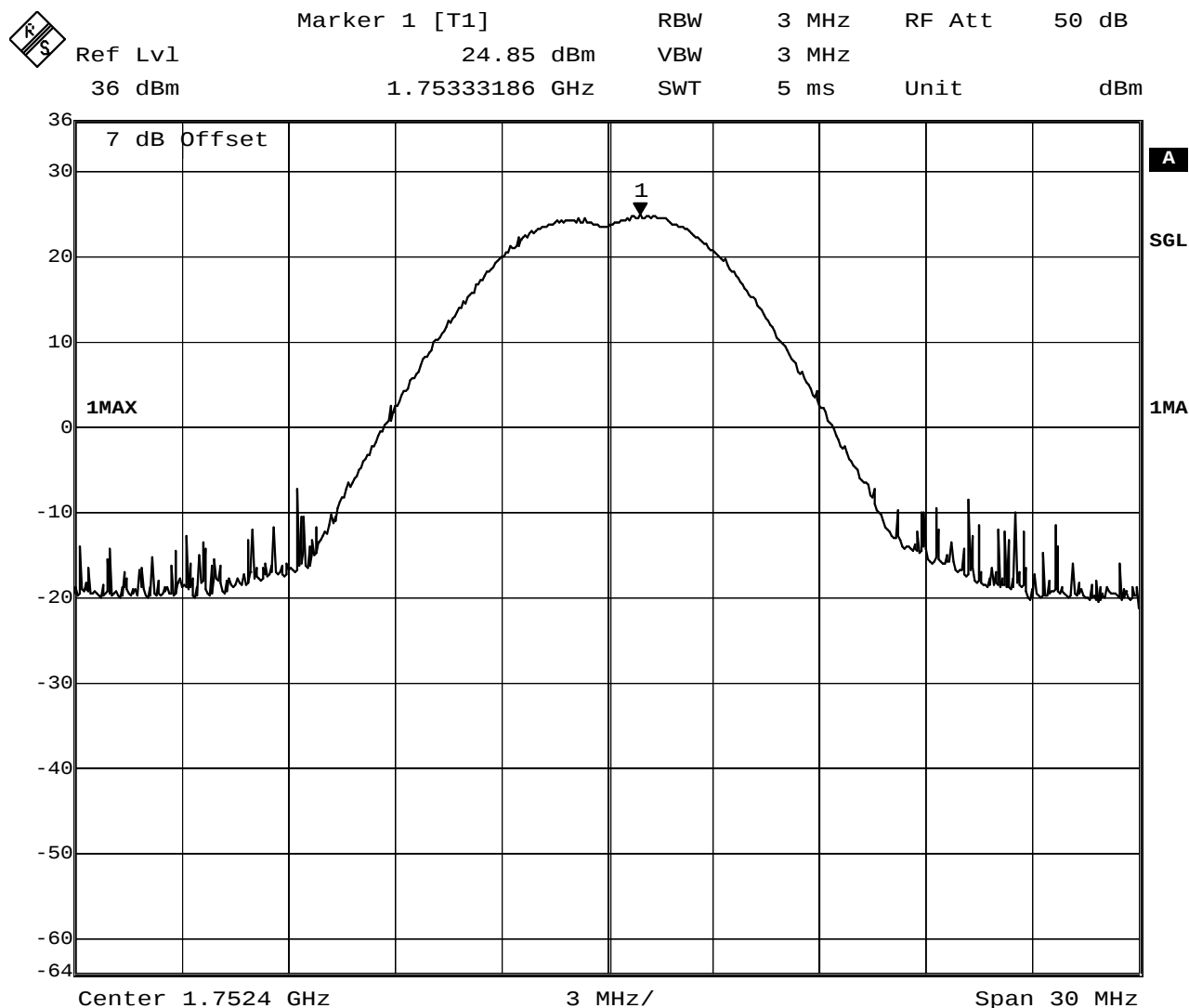
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Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1512
Comment 2	HSUPA subtest 3
Comment 3	



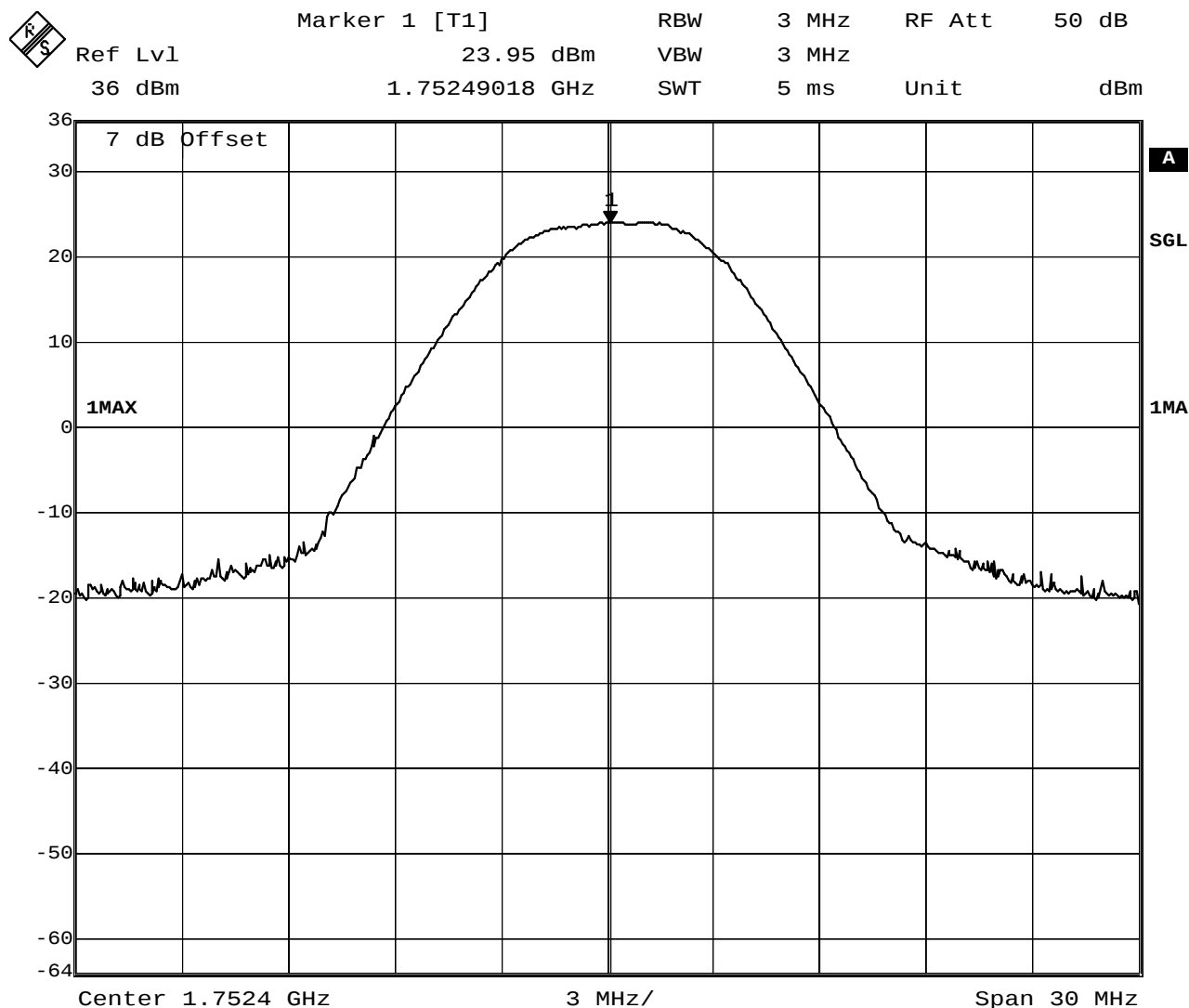
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Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1512
Comment 2	HSUPA subtest 4
Comment 3	



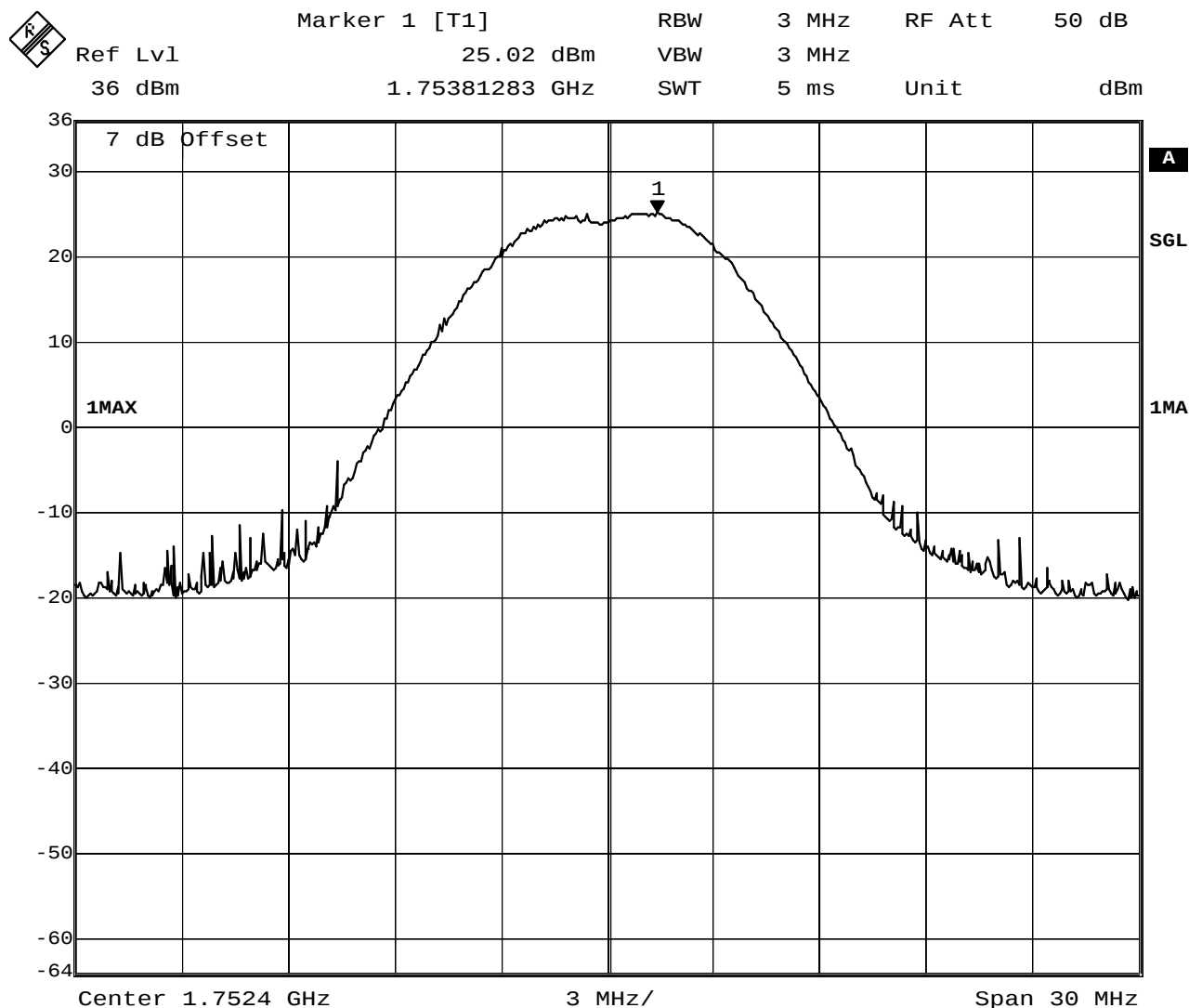
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Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1512
Comment 2	HSUPA subtest 5
Comment 3	



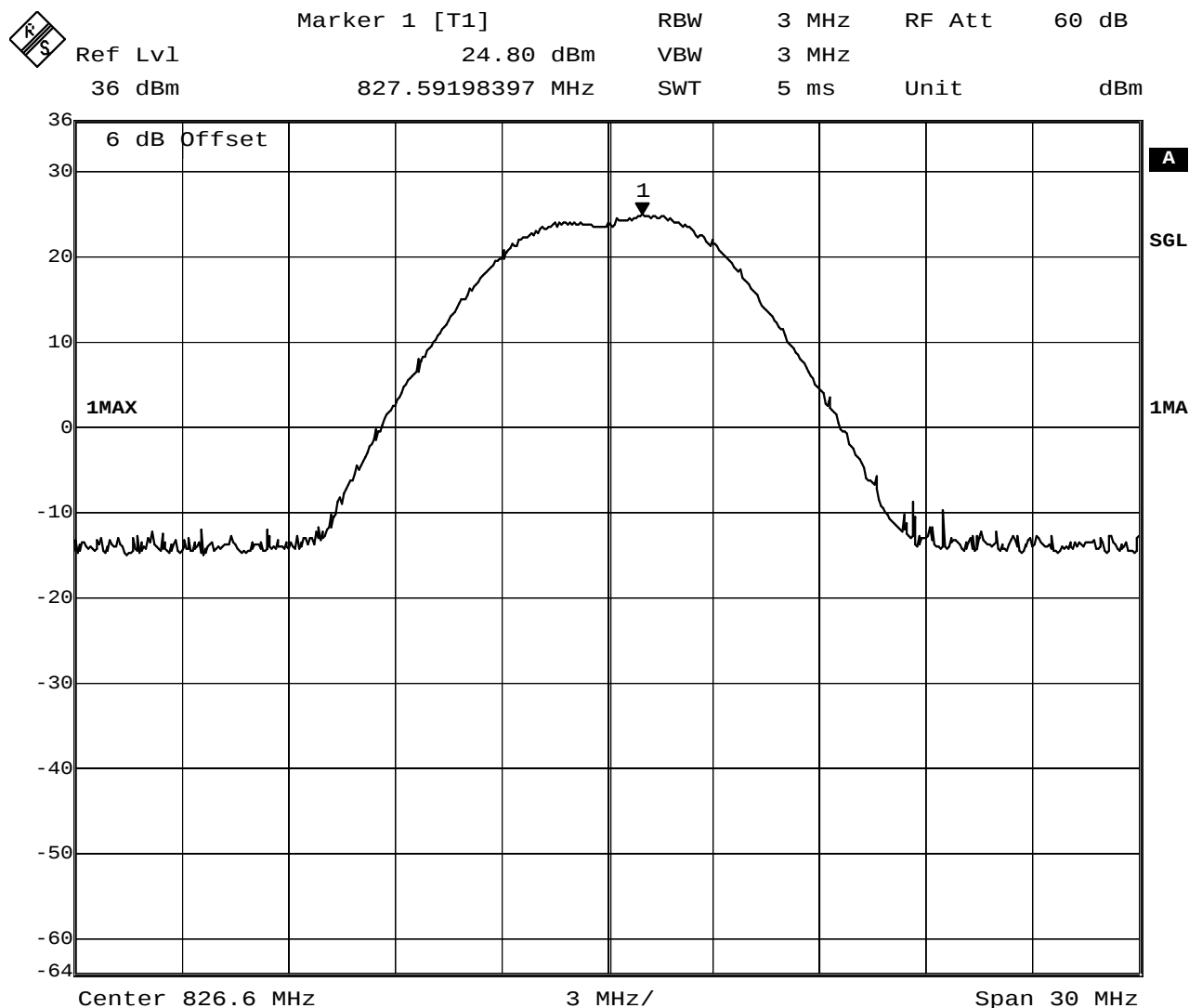
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Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4133
Comment 2	HSUPA subtest 1
Comment 3	



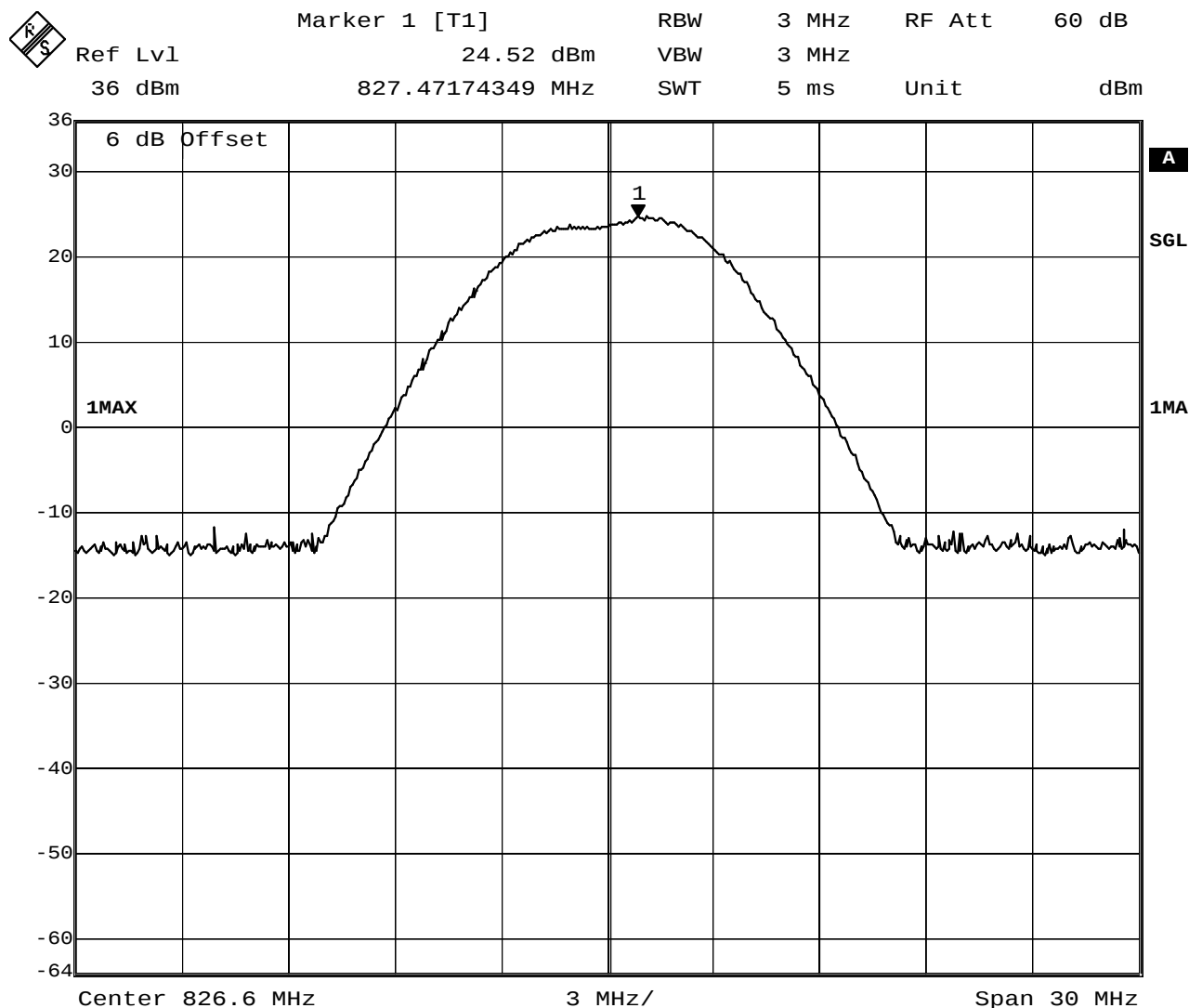
Date: 19.FEB.2009 08:28:13

Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4133
Comment 2	HSUPA subtest 2
Comment 3	



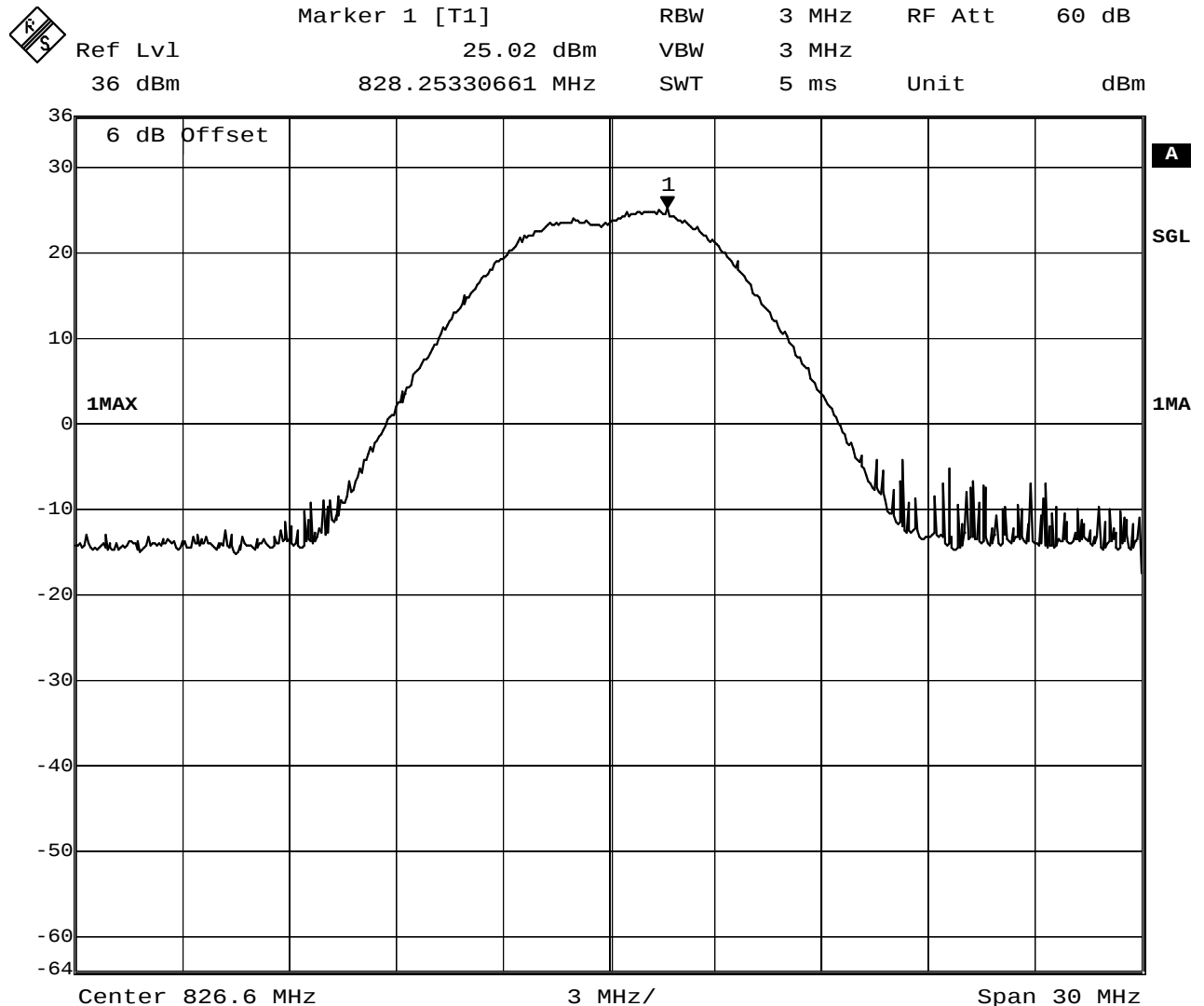
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Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4133
Comment 2	HSUPA subtest 3
Comment 3	



Date: 19.FEB.2009 08:56:17

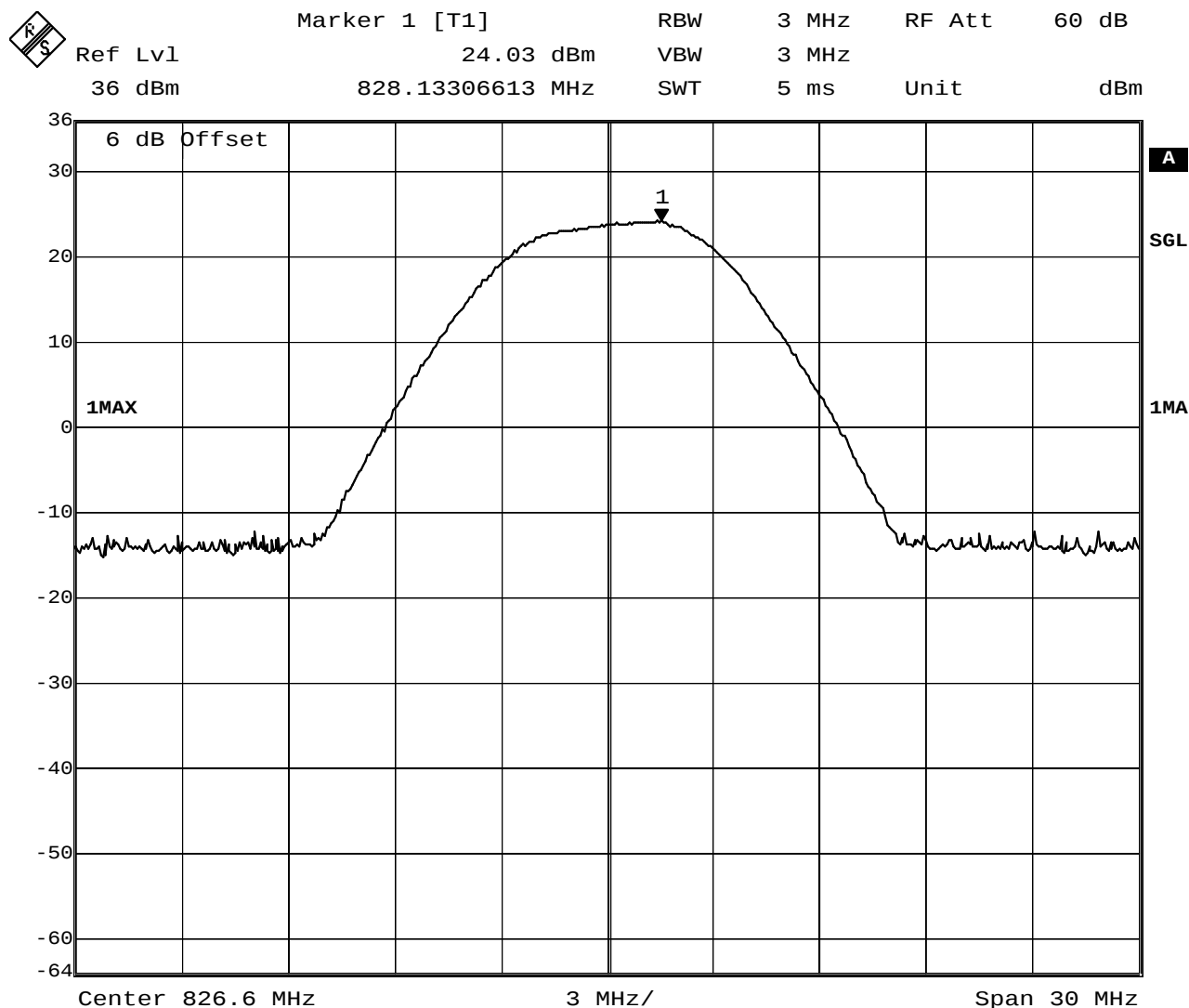
Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H

Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4133
Comment 2	HSUPA subtest 4
Comment 3	



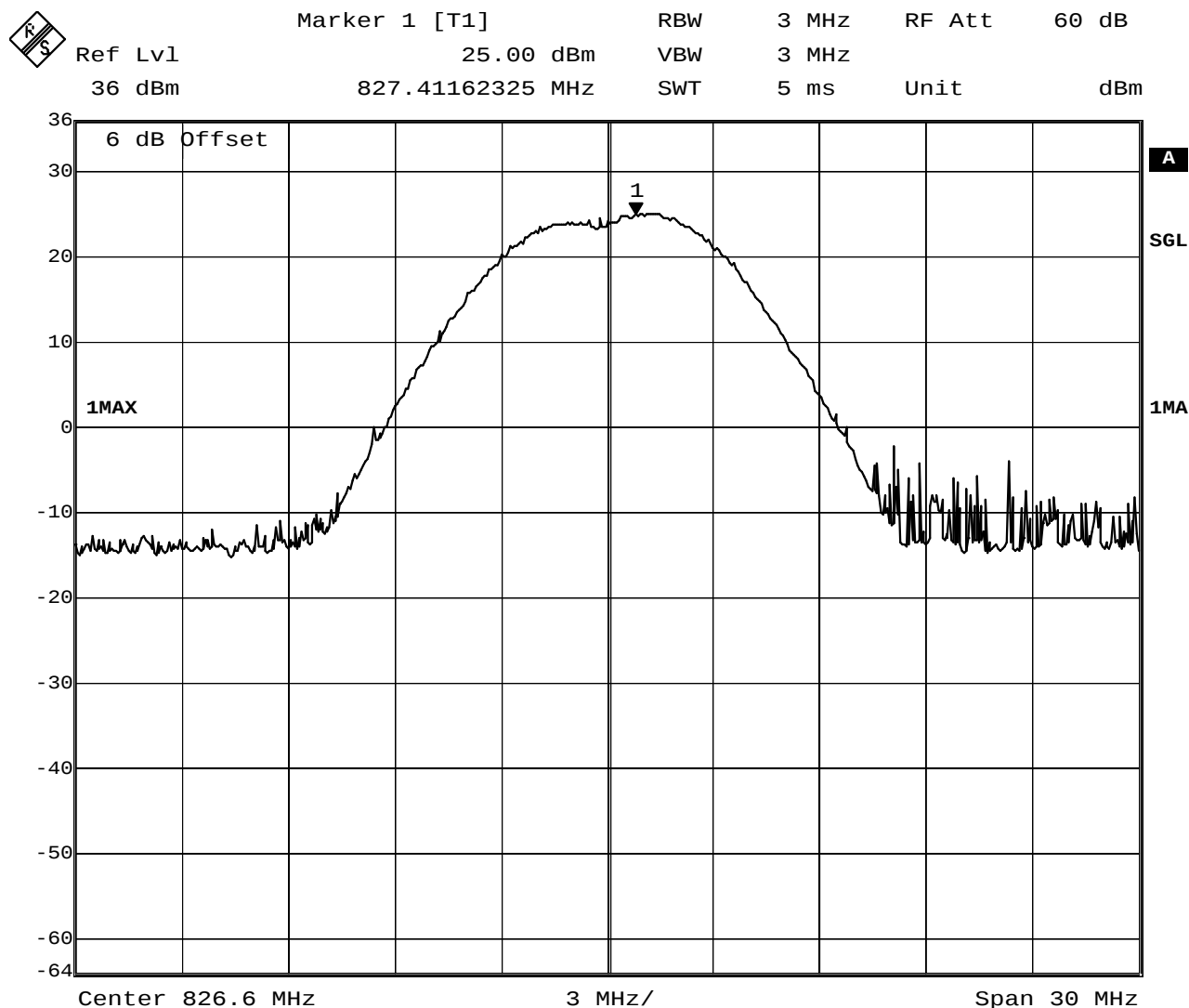
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Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4133
Comment 2	HSUPA subtest 5
Comment 3	



Date: 19.FEB.2009 08:58:06

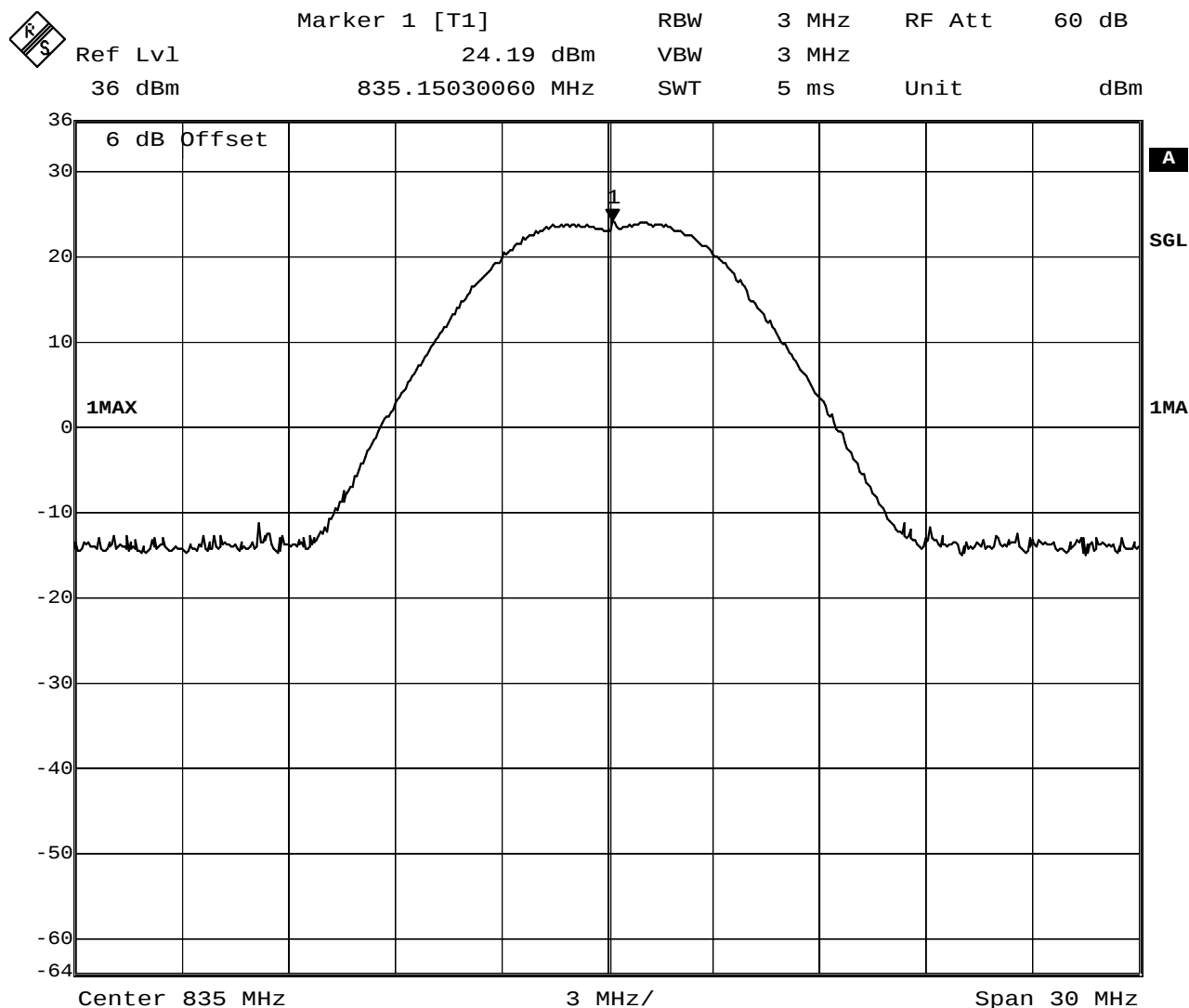
Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H

Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4175
Comment 2	HSUPA subtest 1
Comment 3	



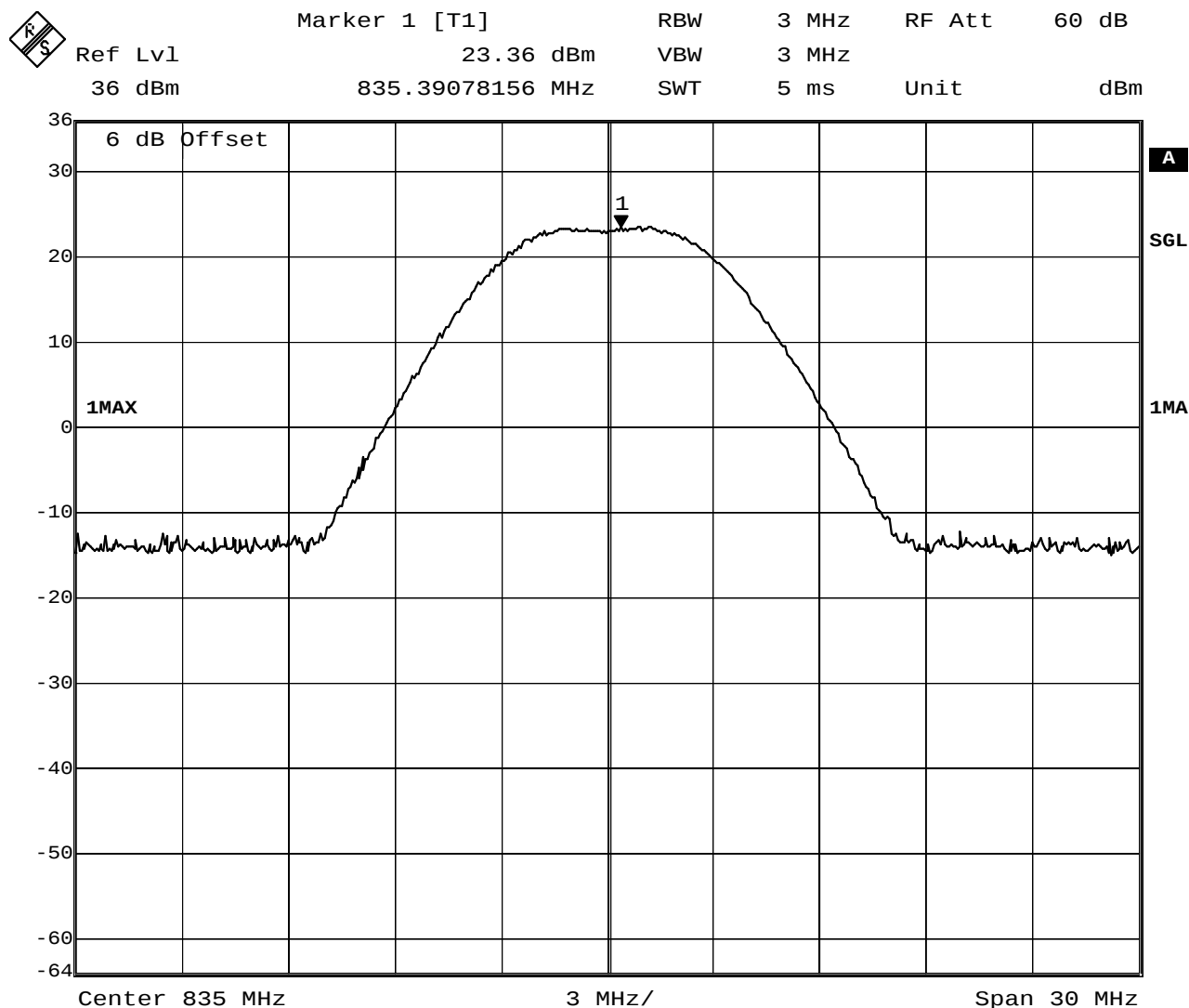
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Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4175
Comment 2	HSUPA subtest 2
Comment 3	



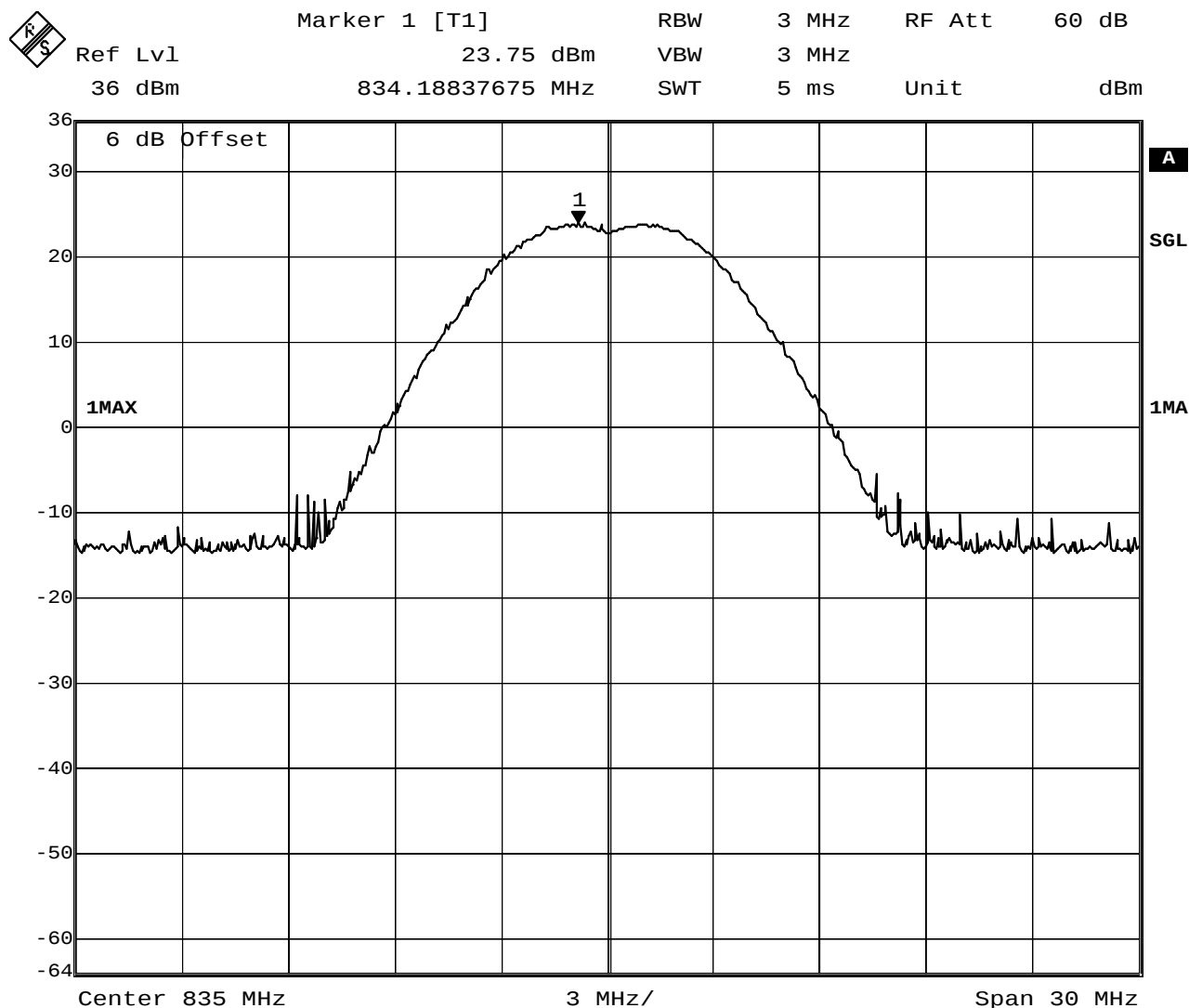
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Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4175
Comment 2	HSUPA subtest 3
Comment 3	



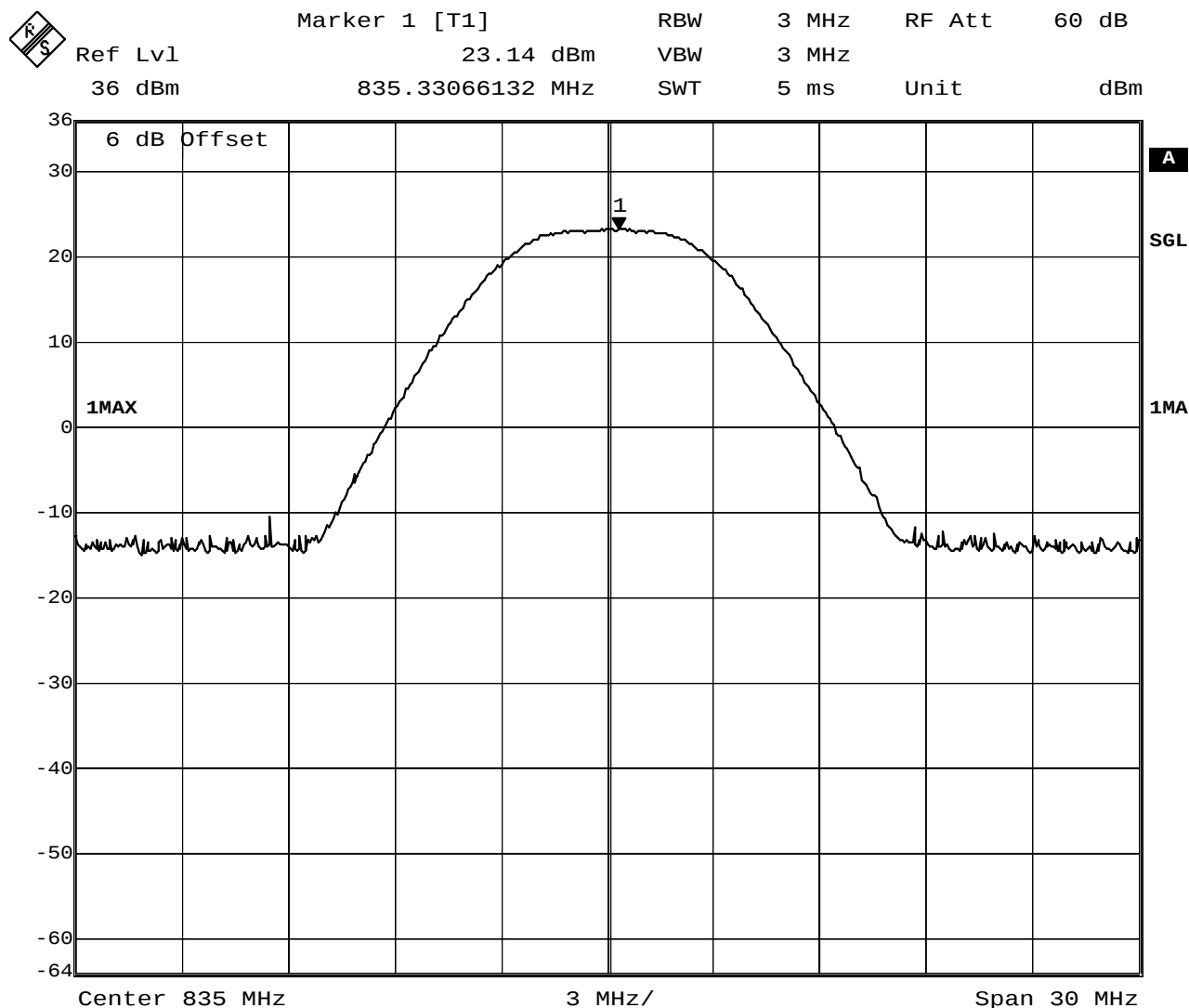
Date: 19.FEB.2009 08:53:15

Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4175
Comment 2	HSUPA subtest 4
Comment 3	



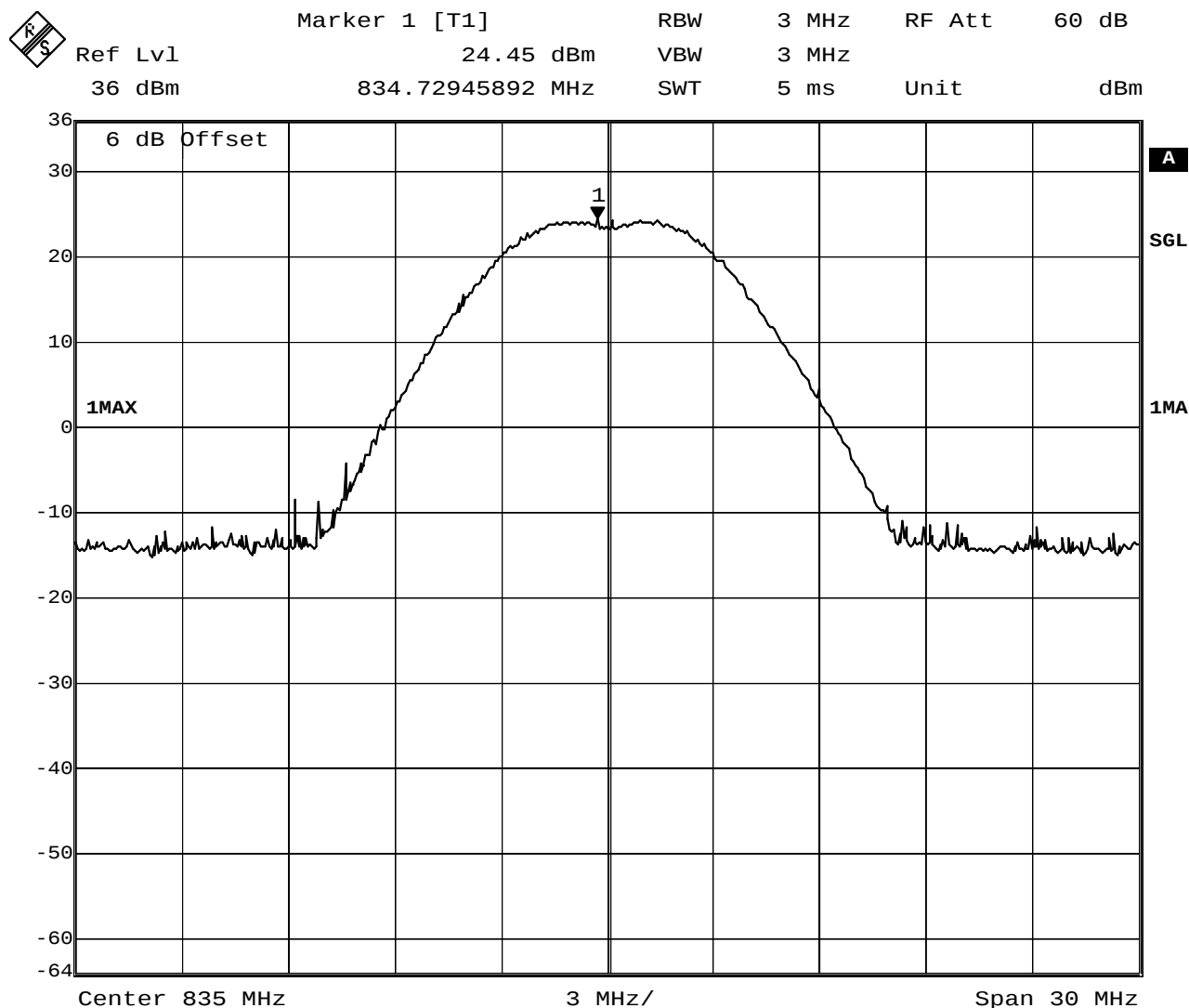
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Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4175
Comment 2	HSUPA subtest 5
Comment 3	



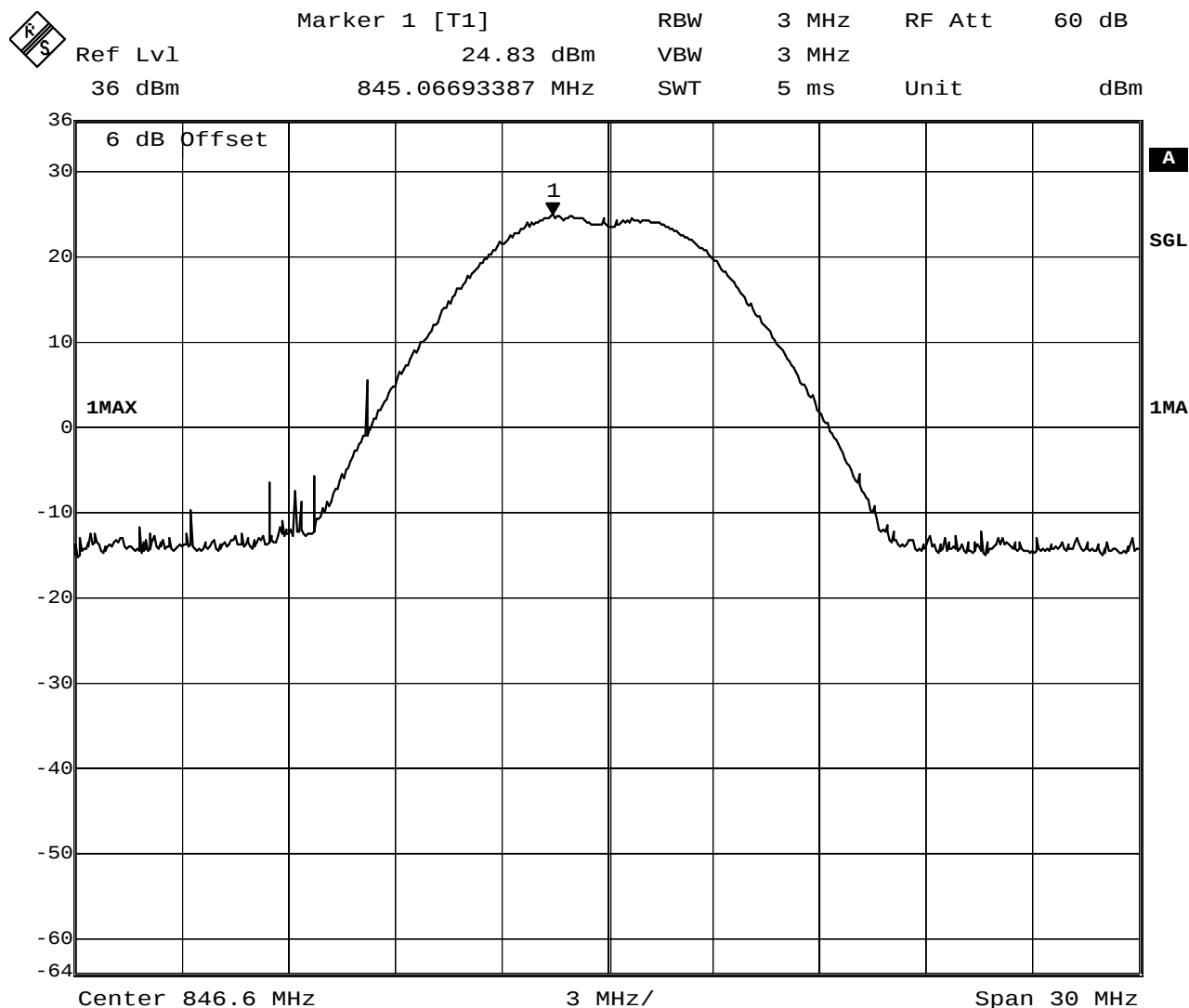
Date: 19.FEB.2009 08:51:47

Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4232
Comment 2	HSUPA subtest 1
Comment 3	



Date: 19.FEB.2009 08:37:04

Measurement diagram

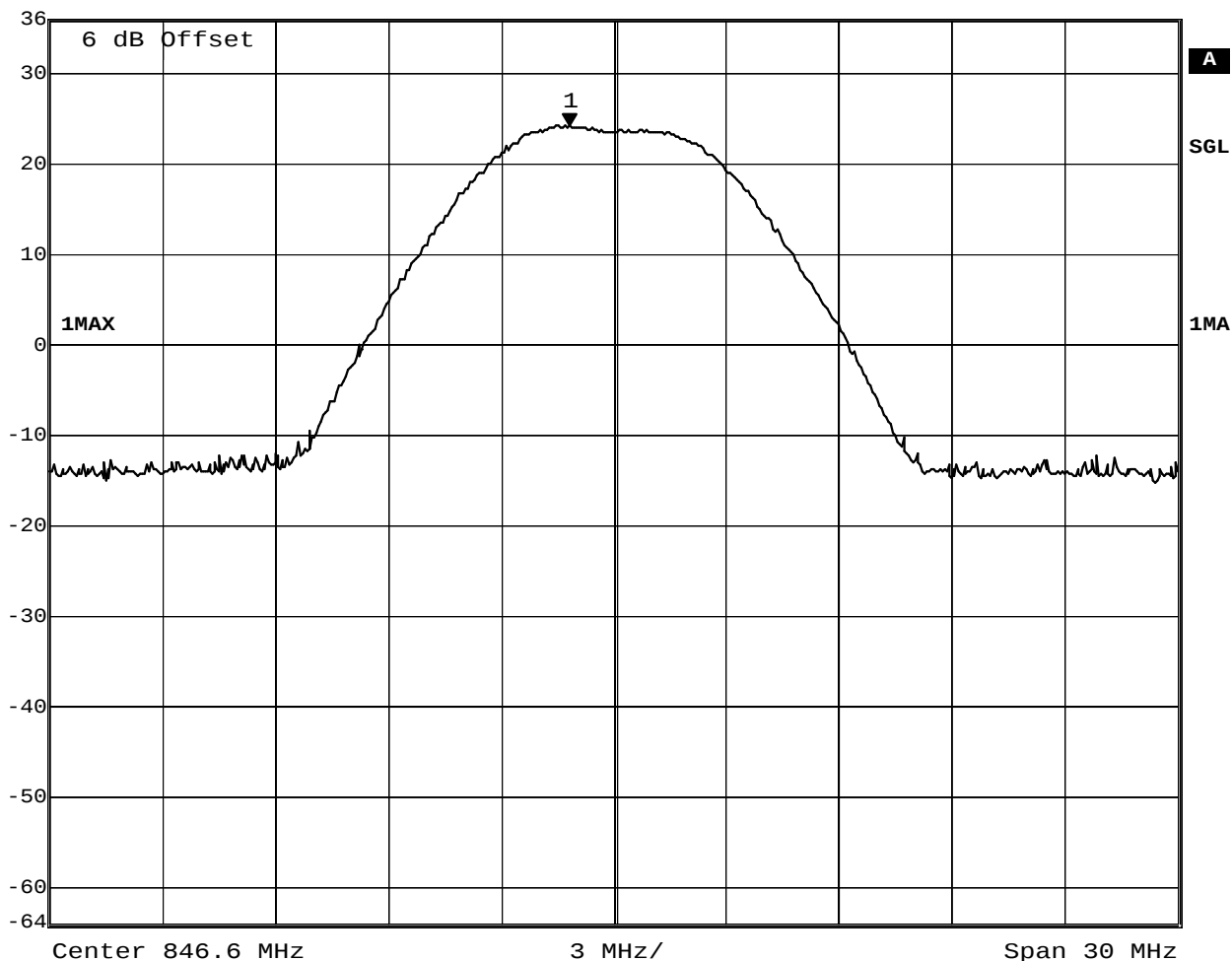
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4232
Comment 2	HSUPA subtest 2
Comment 3	



Marker 1 [T1]	RBW	3 MHz	RF Att	60 dB
Ref Lvl	24.24 dBm	VBW	3 MHz	
36 dBm	845.42765531 MHz	SWT	5 ms	Unit dBm



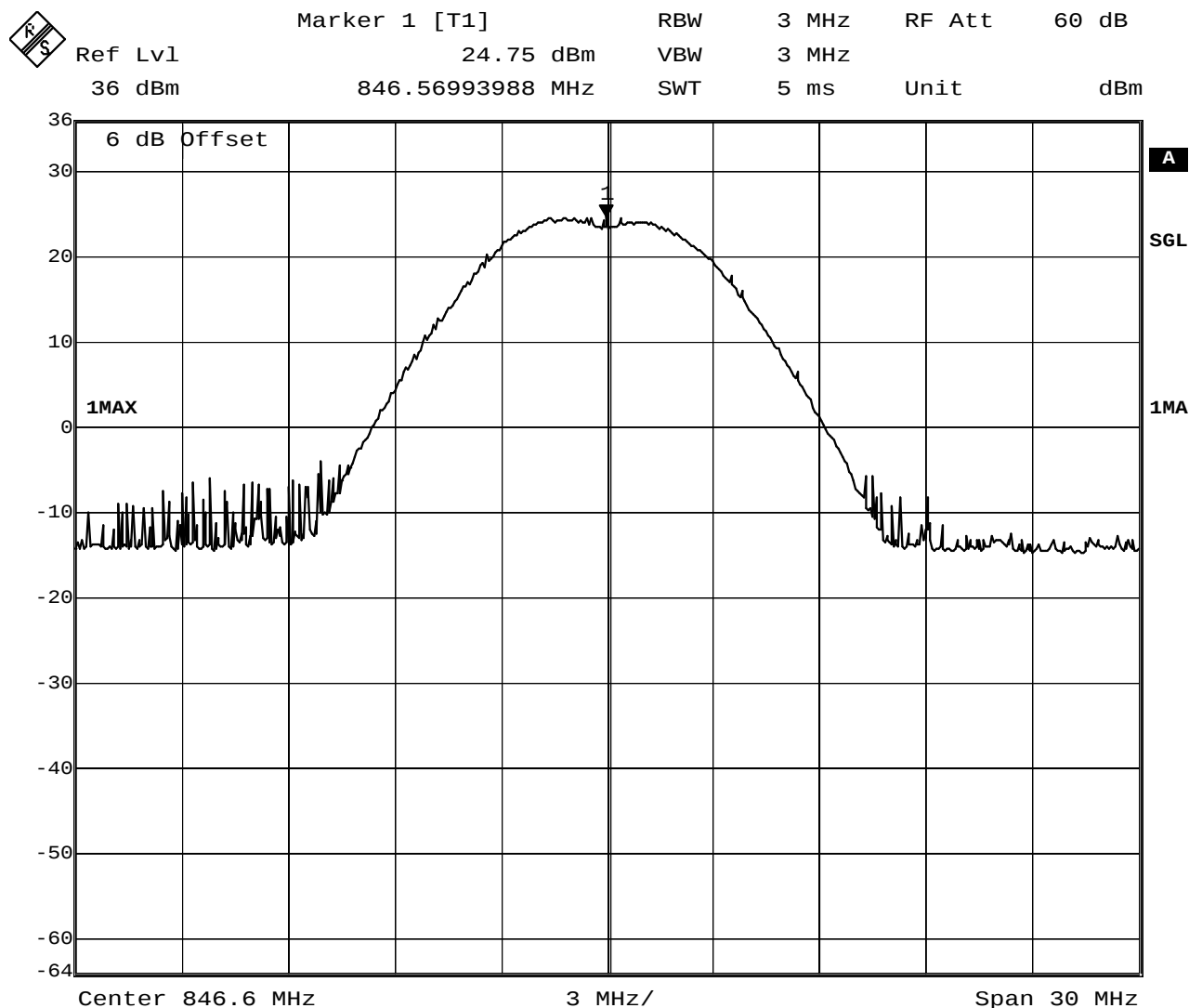
Date: 19.FEB.2009 08:37:49

Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4232
Comment 2	HSUPA subtest 3
Comment 3	



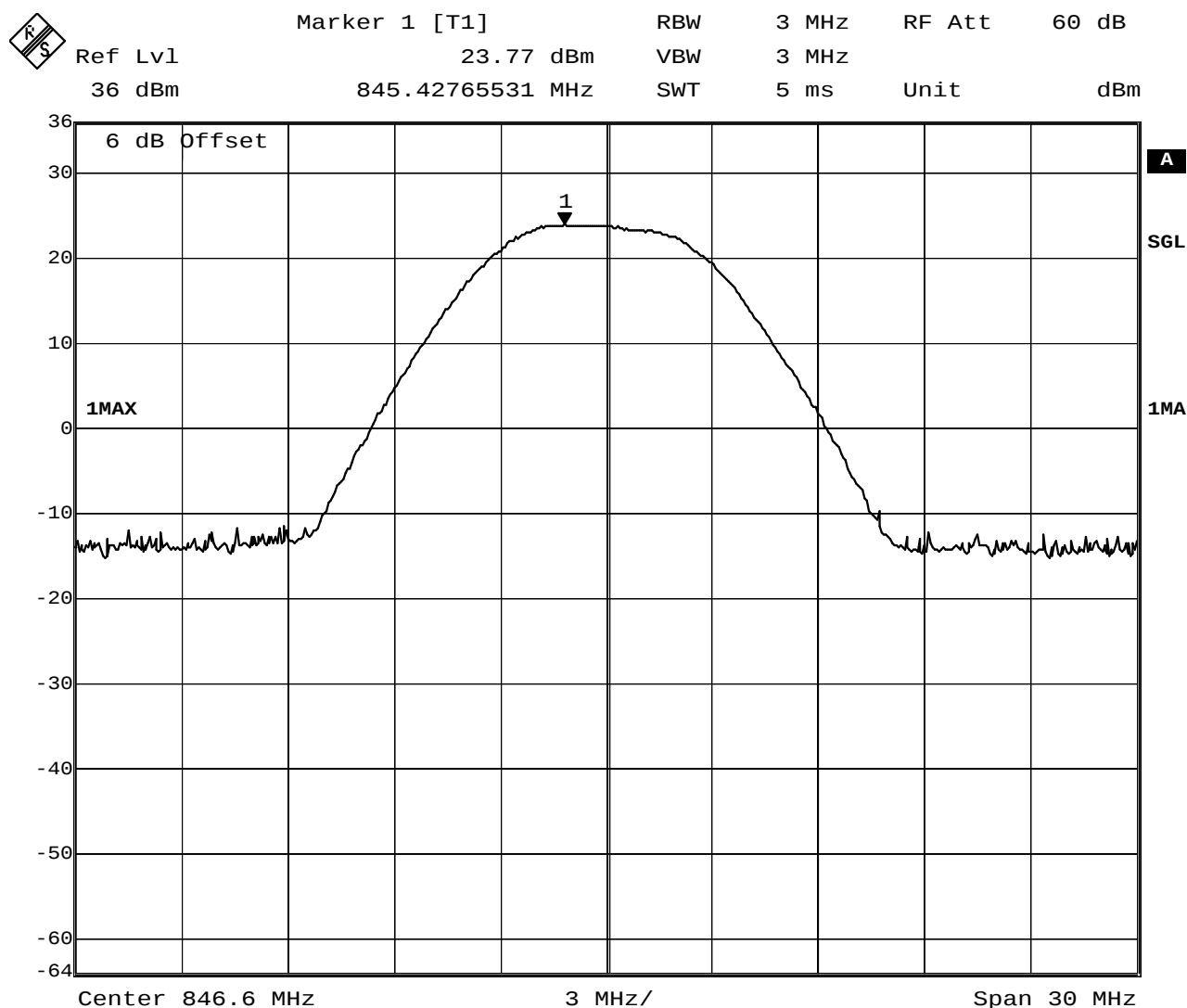
Date: 19.FEB.2009 08:38:39

Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4232
Comment 2	HSUPA subtest 4
Comment 3	



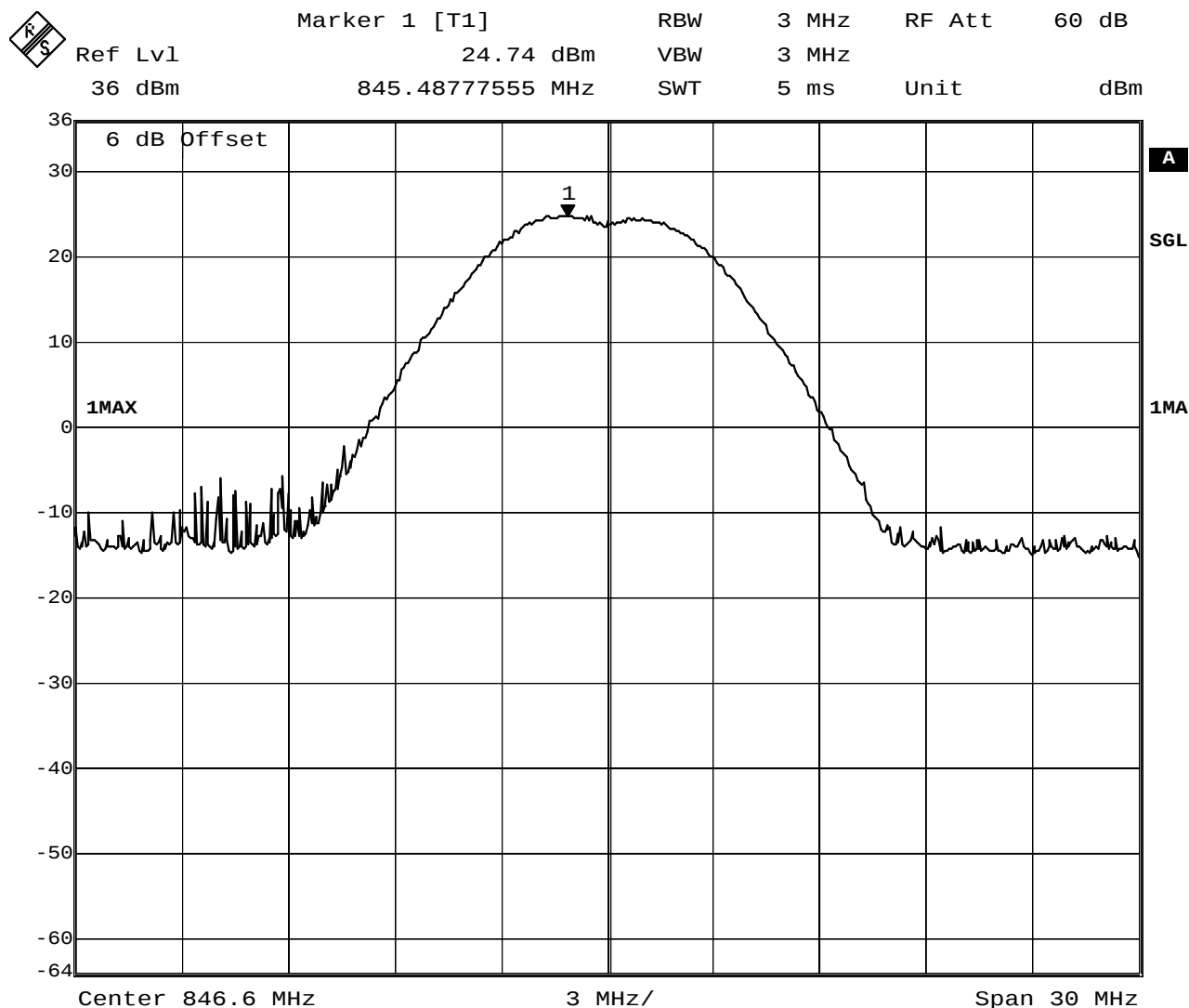
Date: 19.FEB.2009 08:39:29

Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H
Output power conducted

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4232
Comment 2	HSUPA subtest 5
Comment 3	



Date: 19.FEB.2009 08:40:07

Measurement diagram

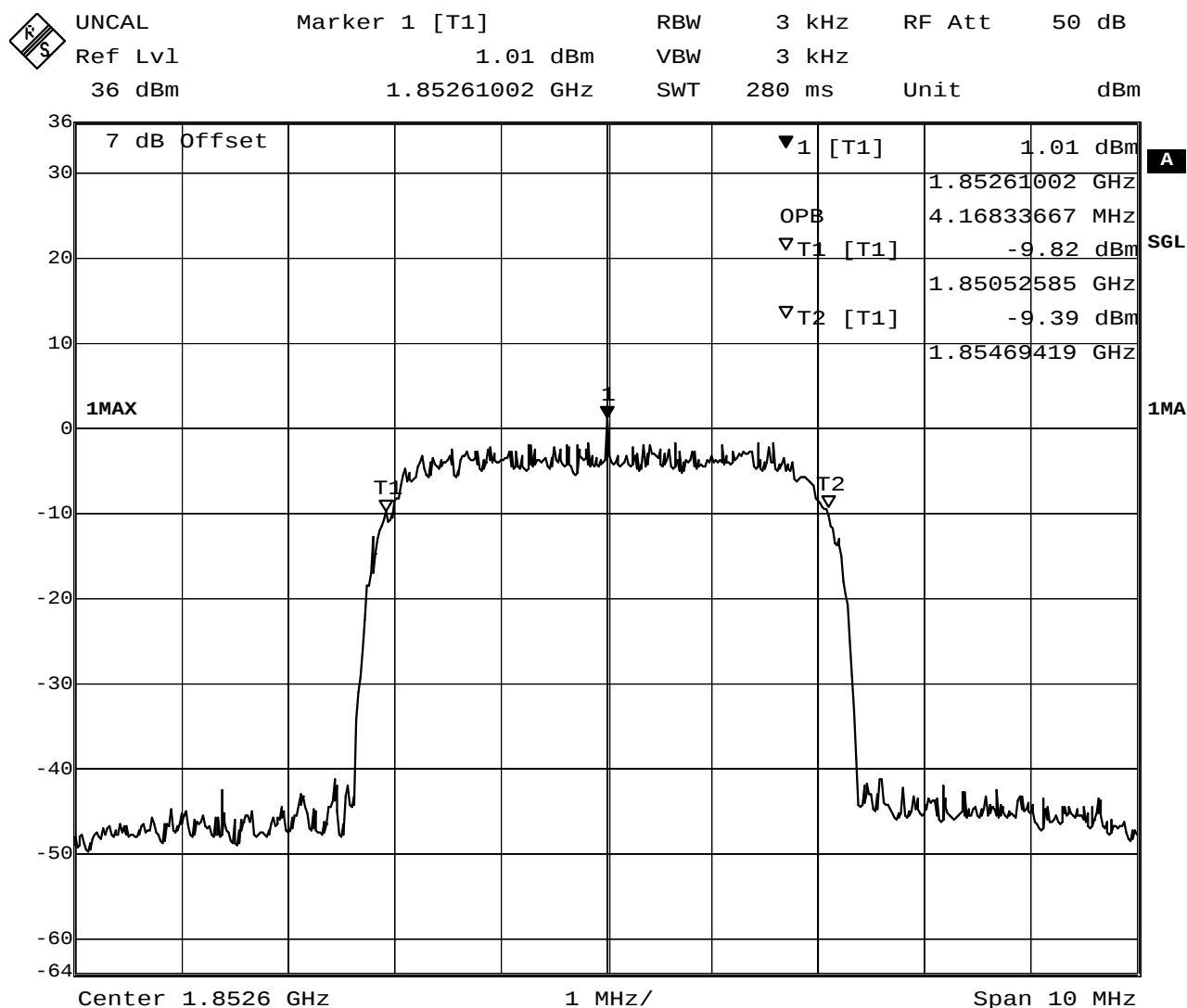
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Annex C

Occupied bandwidth, emission bandwidth

FCC Part 24 E Occupied Bandwidth

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9263
Comment 2	HSDPA subtest 1
Comment 3	



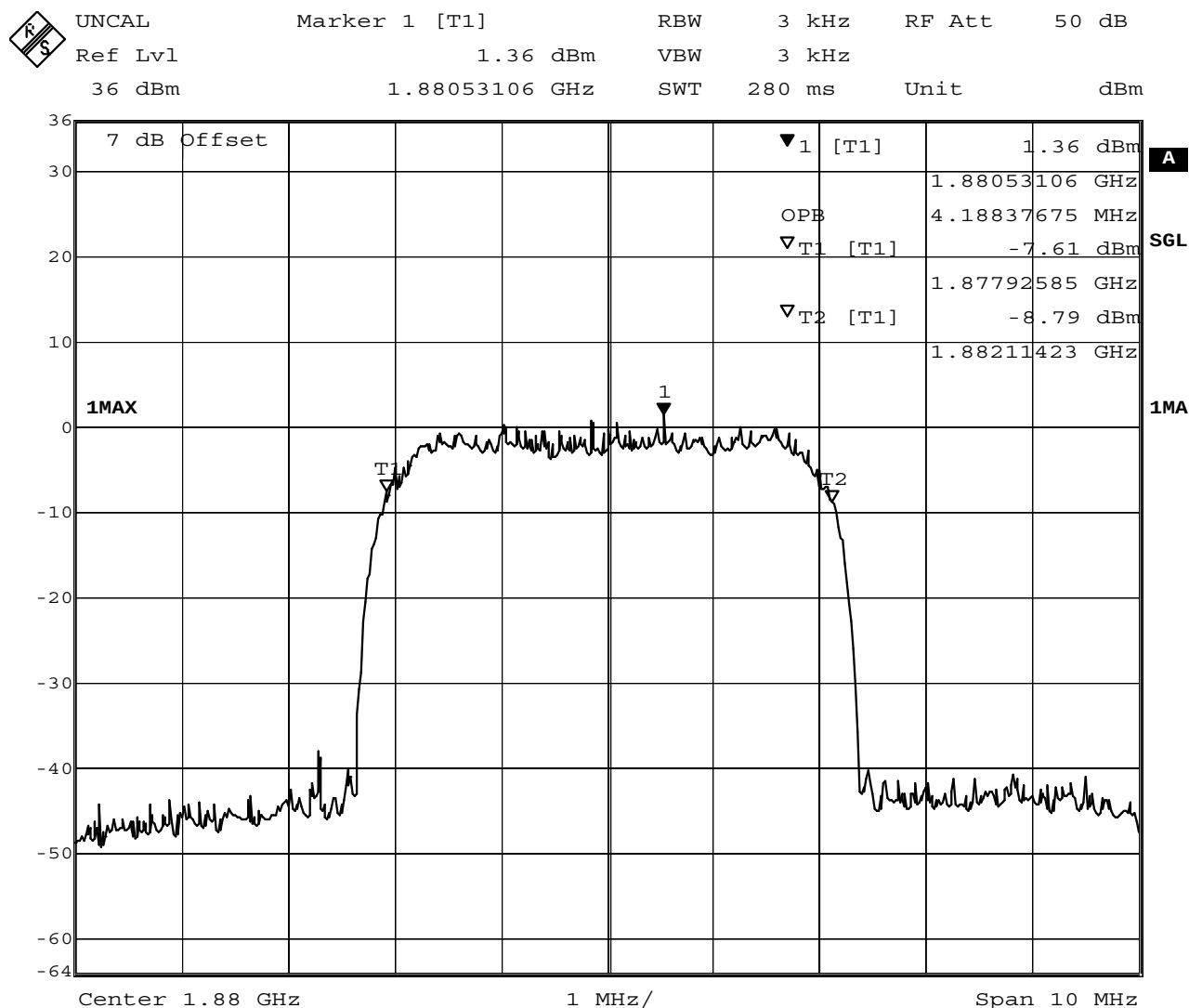
Date: 18.FEB.2009 15:46:33

Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E Occupied Bandwidth

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9400
Comment 2	HSDPA subtest 1
Comment 3	



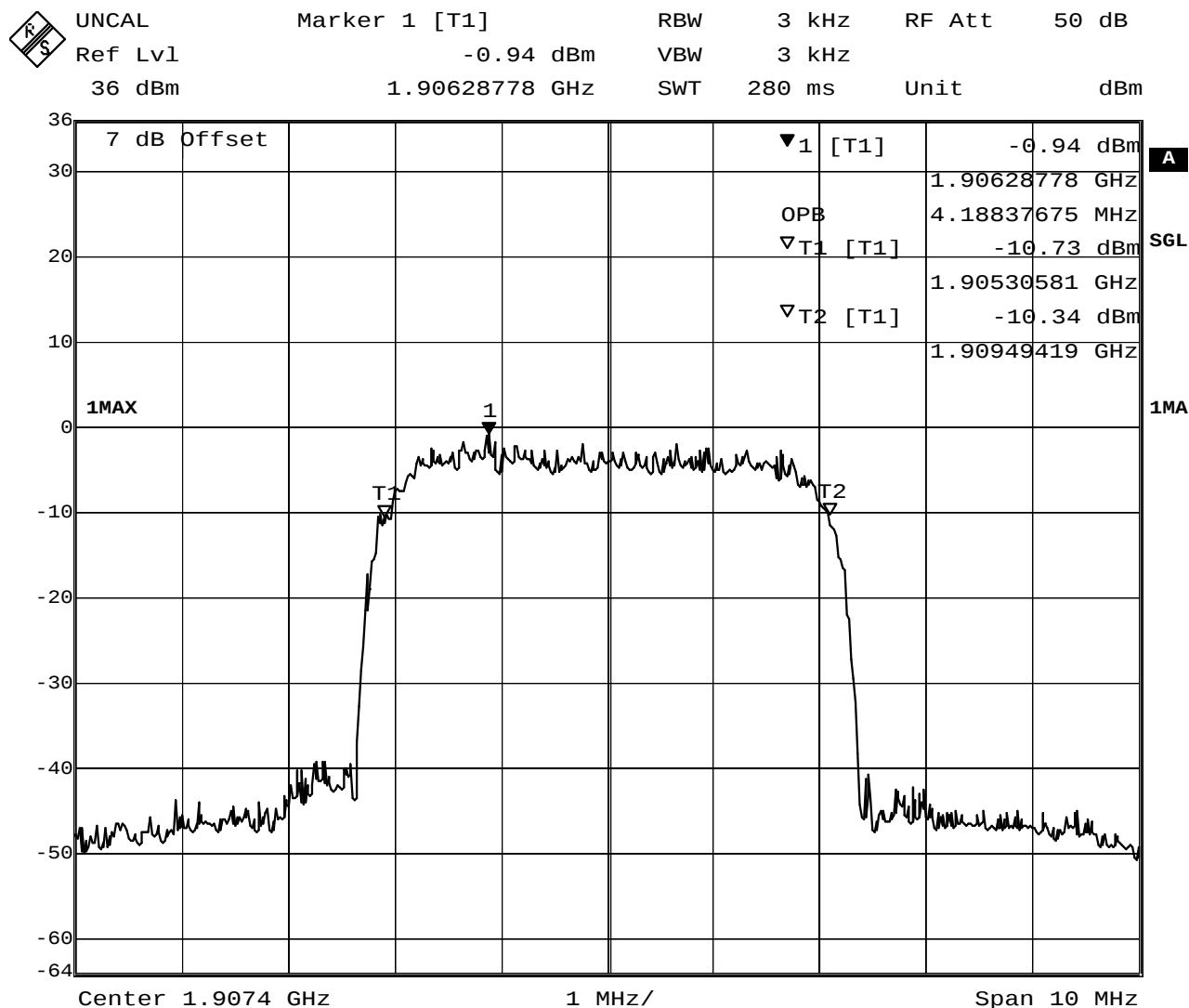
Date: 18.FEB.2009 15:48:24

Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E Occupied Bandwidth

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9537
Comment 2	HSDPA subtest 1
Comment 3	



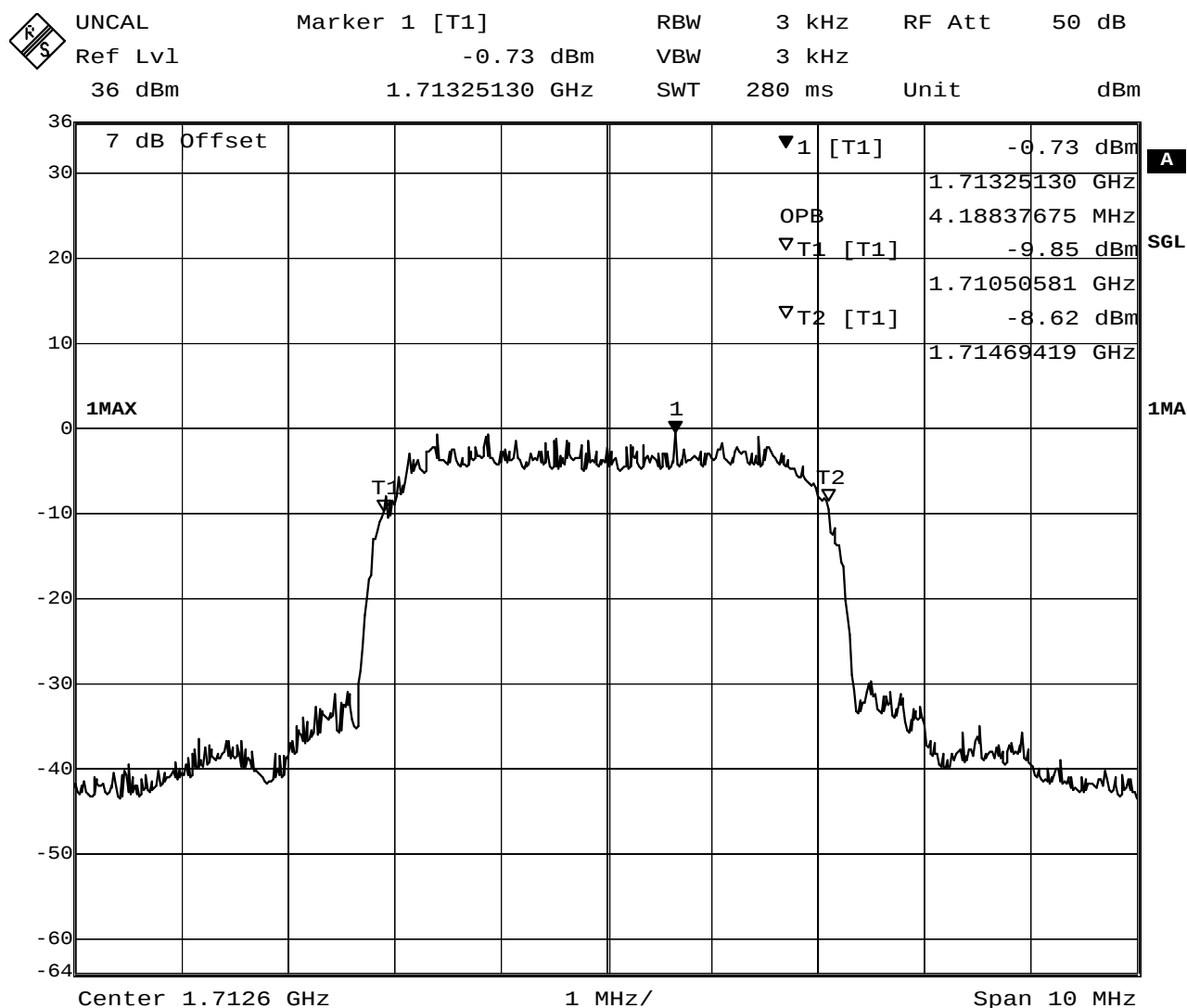
Date: 18.FEB.2009 15:55:11

Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C Occupied Bandwidth

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1313
Comment 2	HSDPA subtest 1
Comment 3	



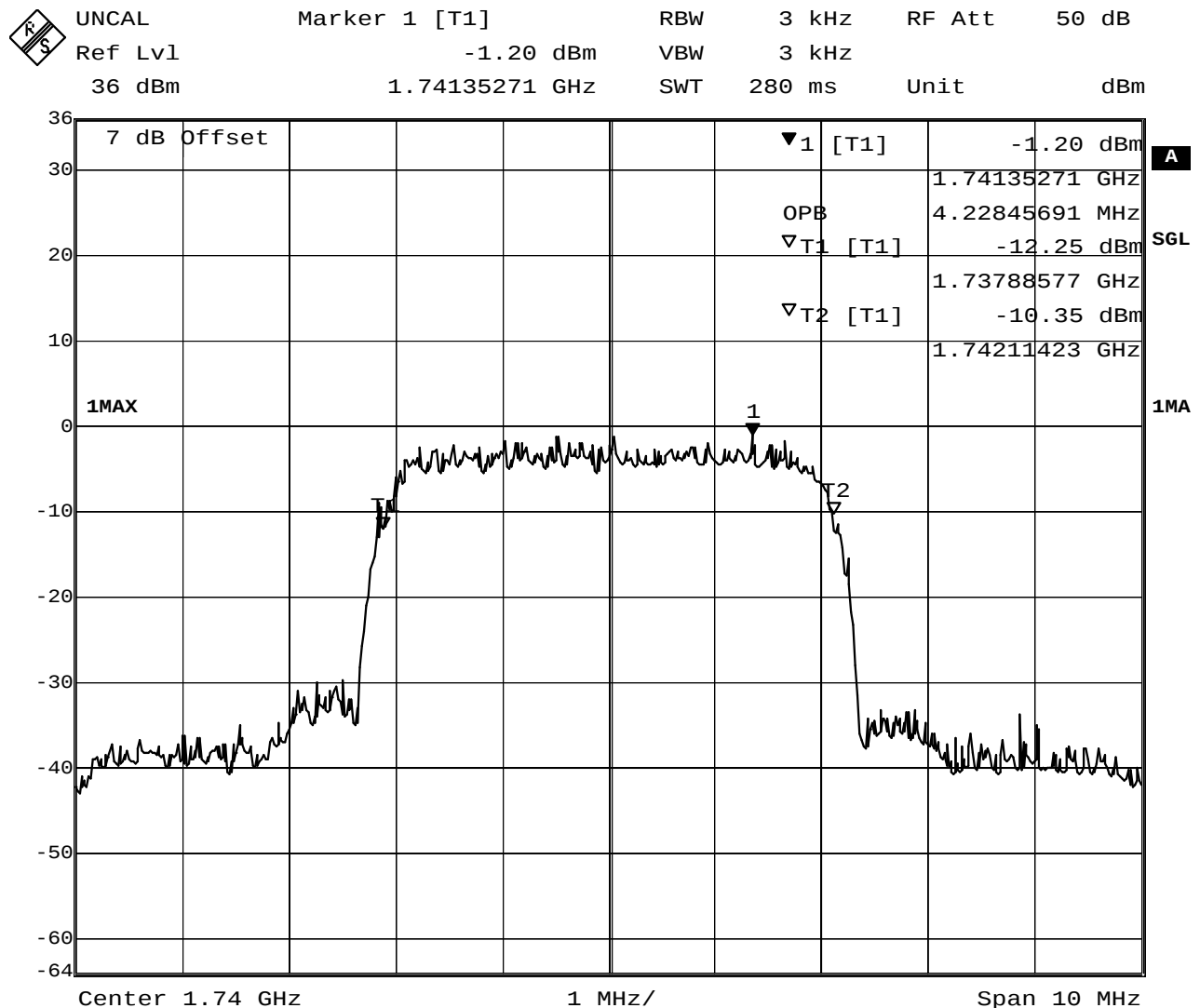
Date: 18.FEB.2009 16:14:40

Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C Occupied Bandwidth

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1450
Comment 2	HSDPA subtest 1
Comment 3	



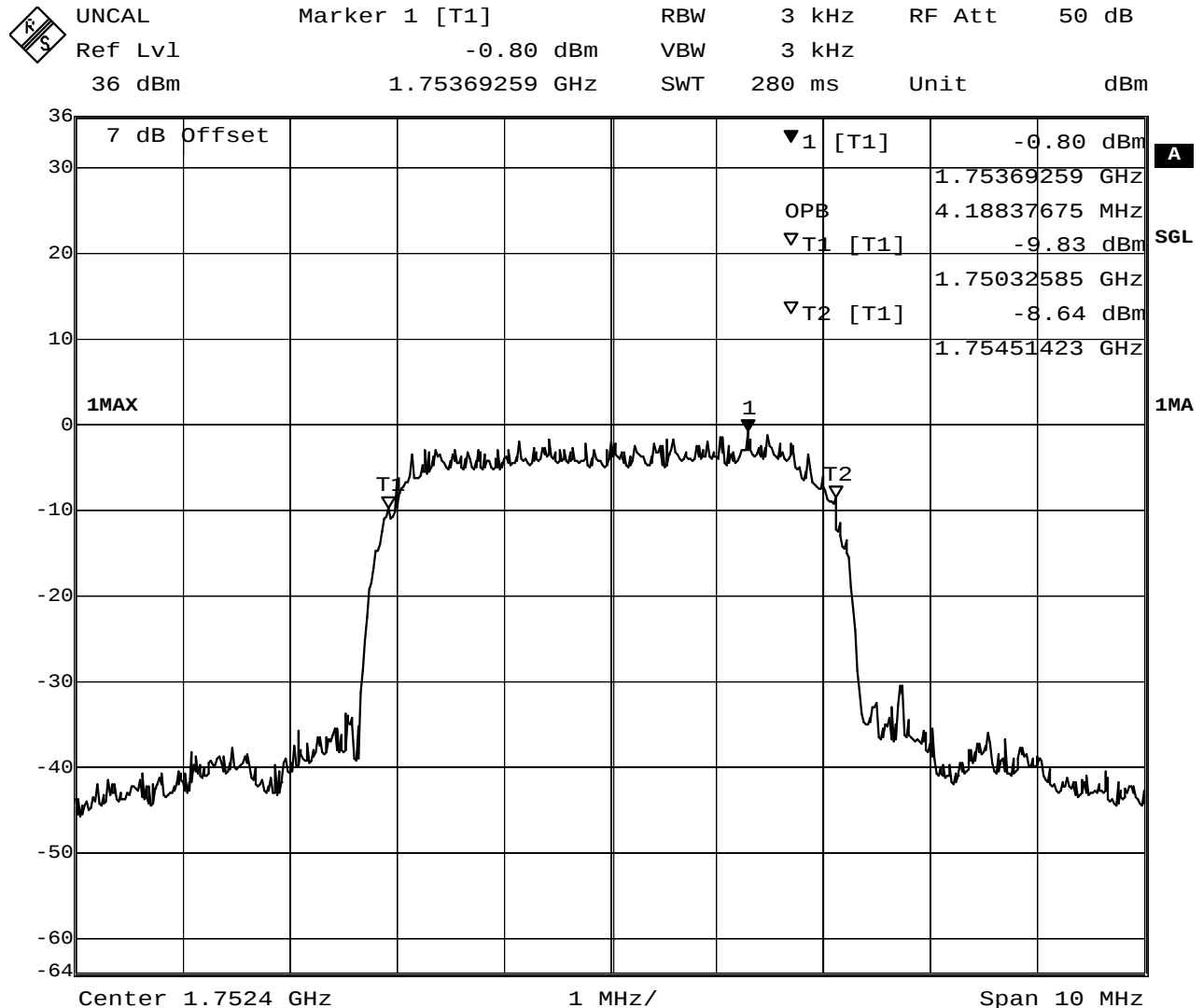
Date: 18.FEB.2009 16:16:29

Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C Occupied Bandwidth

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1512
Comment 2	HSDPA subtest 1
Comment 3	



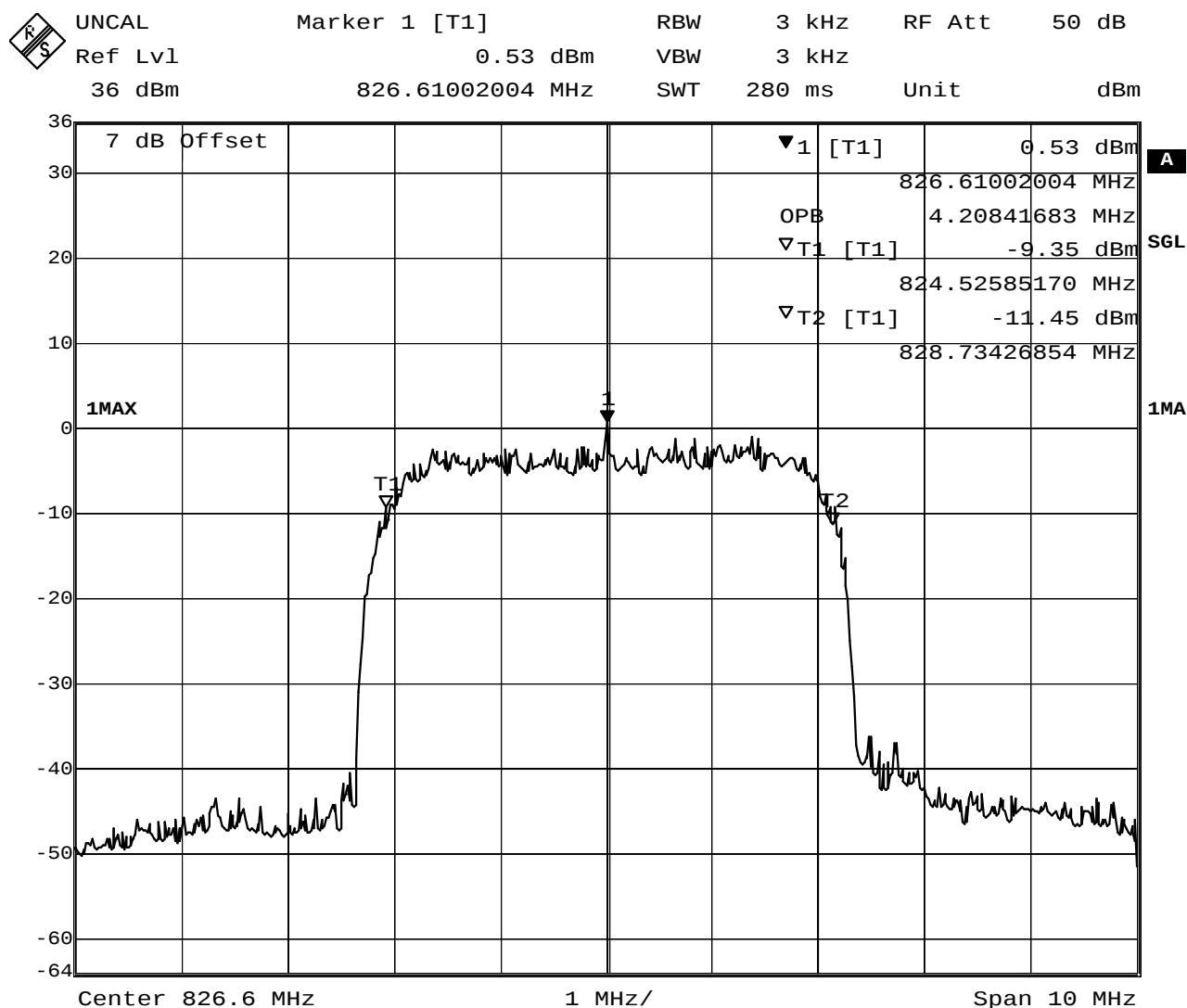
Date: 18.FEB.2009 16:20:41

Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H Occupied Bandwidth

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4133
Comment 2	HSDPA subtest 1
Comment 3	



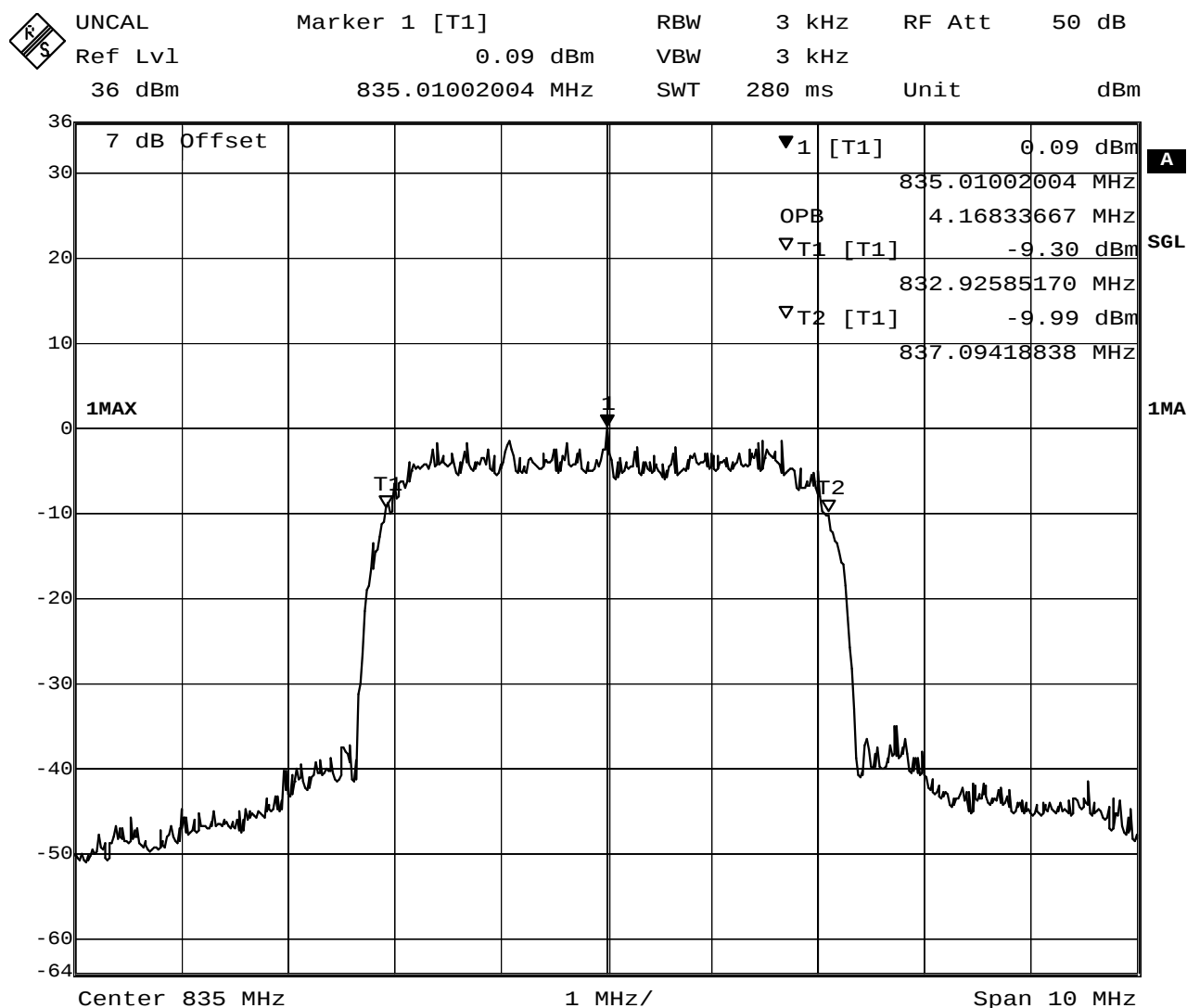
Date: 18.FEB.2009 17:16:26

Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H Occupied Bandwidth

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4175
Comment 2	HSDPA subtest 1
Comment 3	



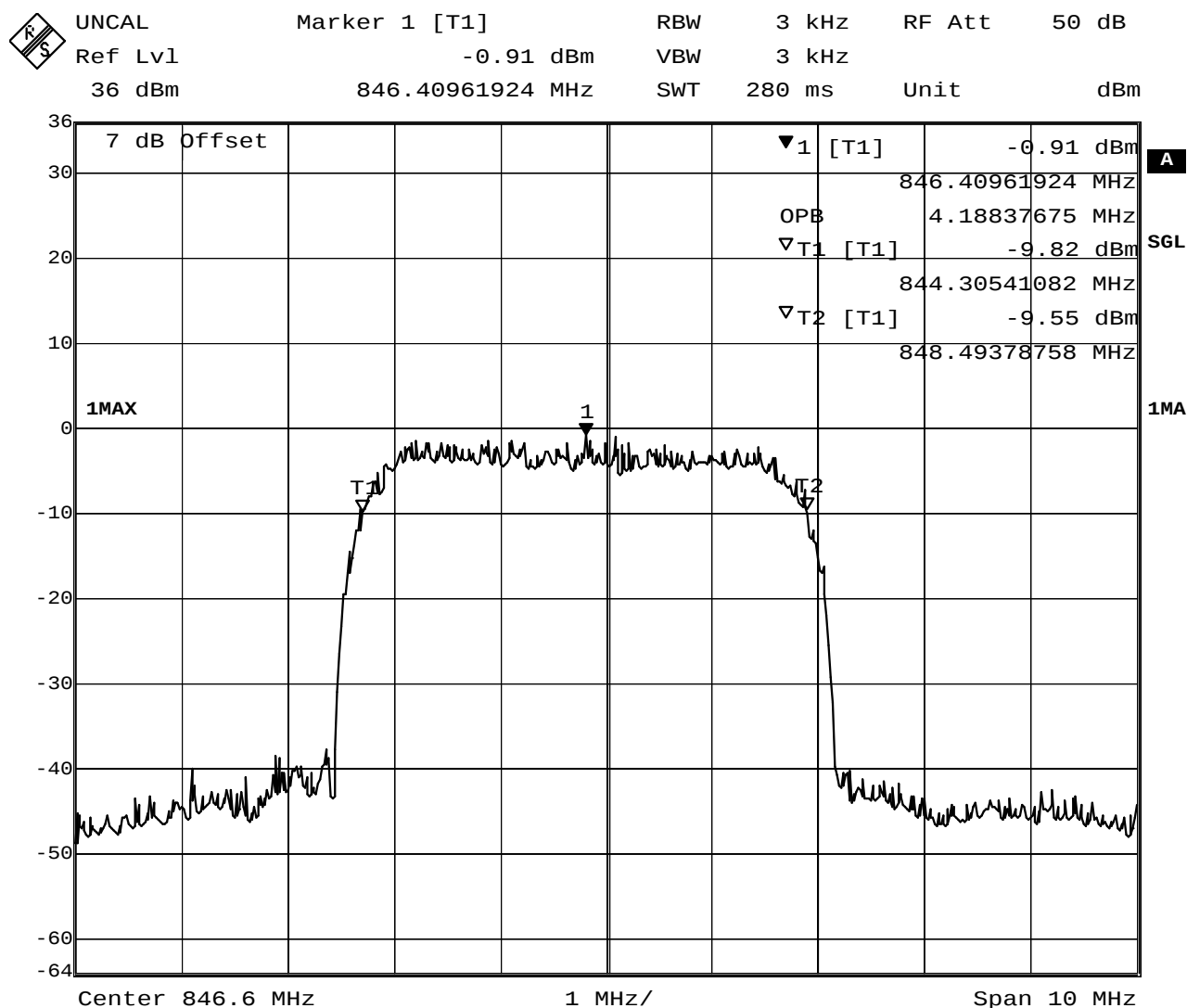
Date: 18.FEB.2009 17:23:39

Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H Occupied Bandwidth

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4232
Comment 2	HSDPA subtest 1
Comment 3	



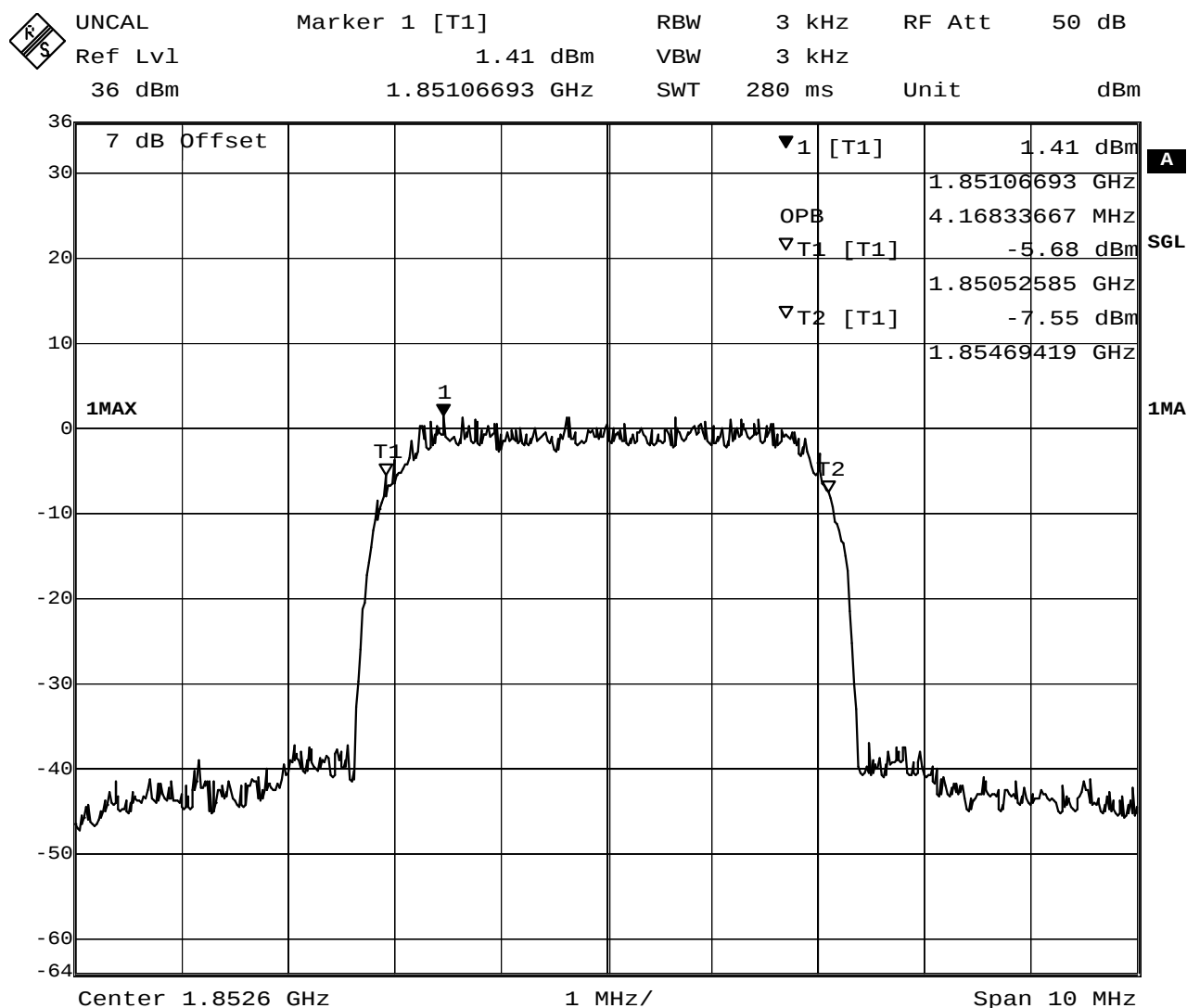
Date: 18.FEB.2009 17:25:53

Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E Occupied Bandwidth

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9263
Comment 2	HSUPA subtest 1
Comment 3	



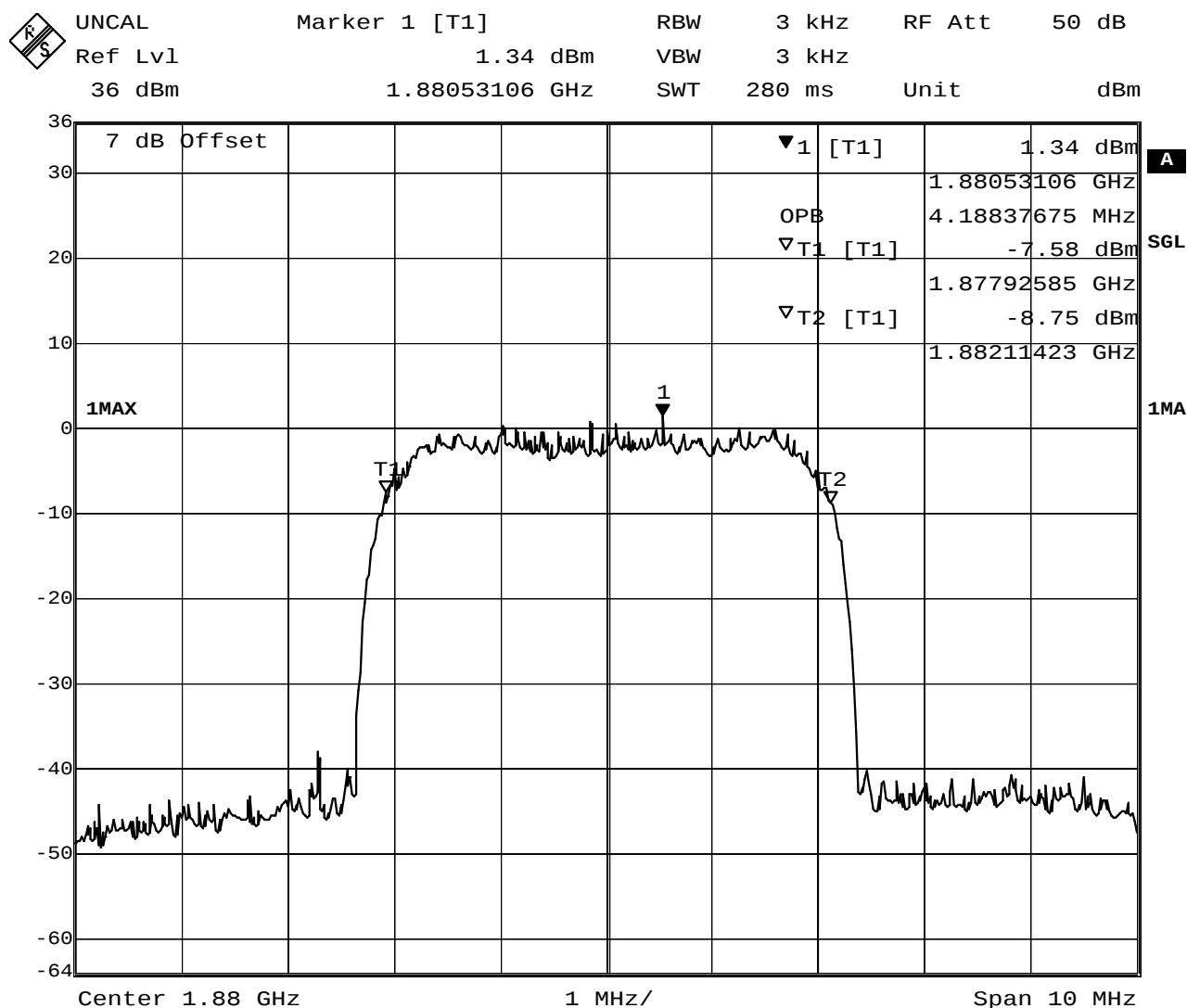
Date: 18.FEB.2009 14:46:07

Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E Occupied Bandwidth

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9400
Comment 2	HSUPA subtest 1
Comment 3	



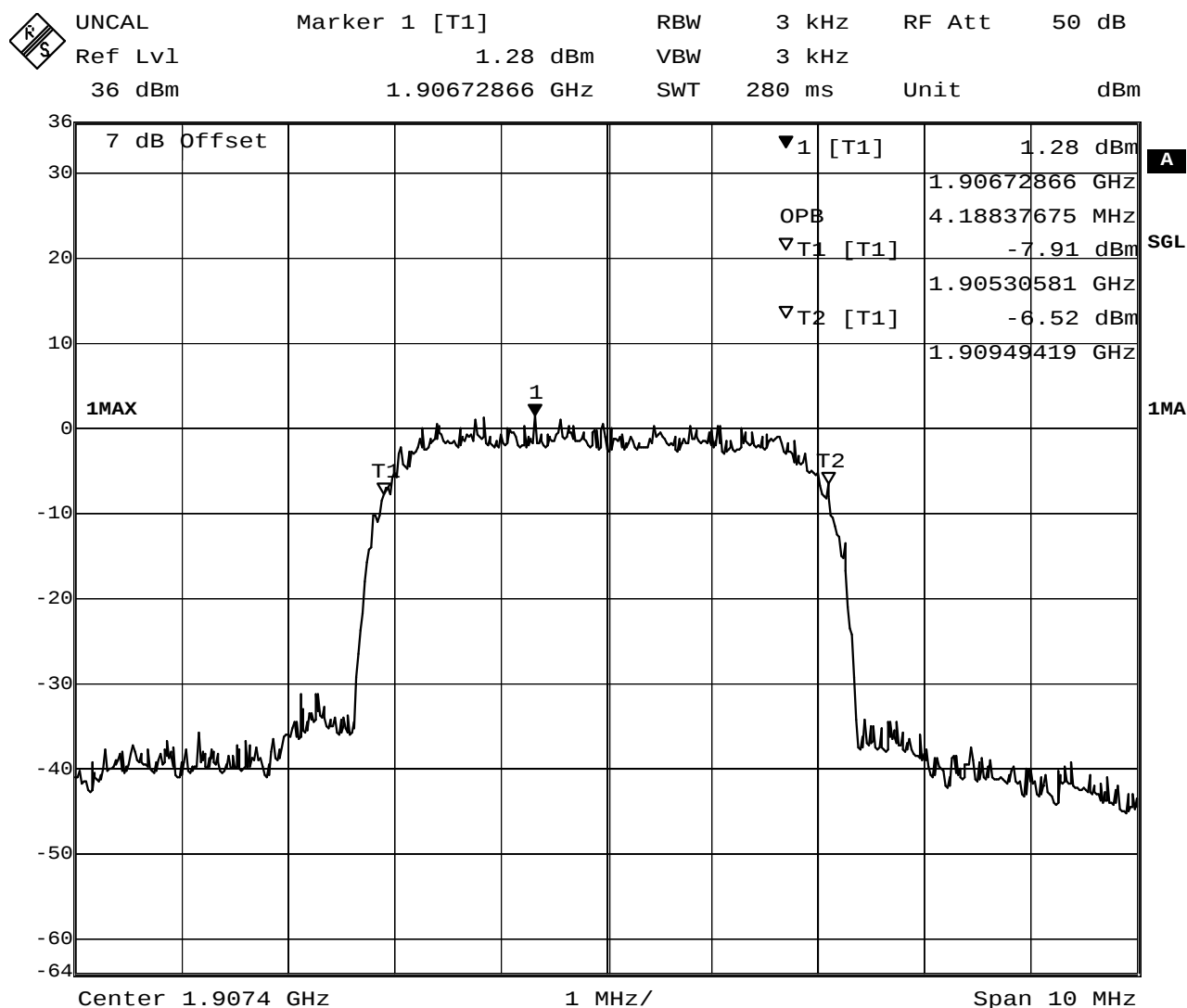
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Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E Occupied Bandwidth

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9537
Comment 2	HSUPA subtest 1
Comment 3	



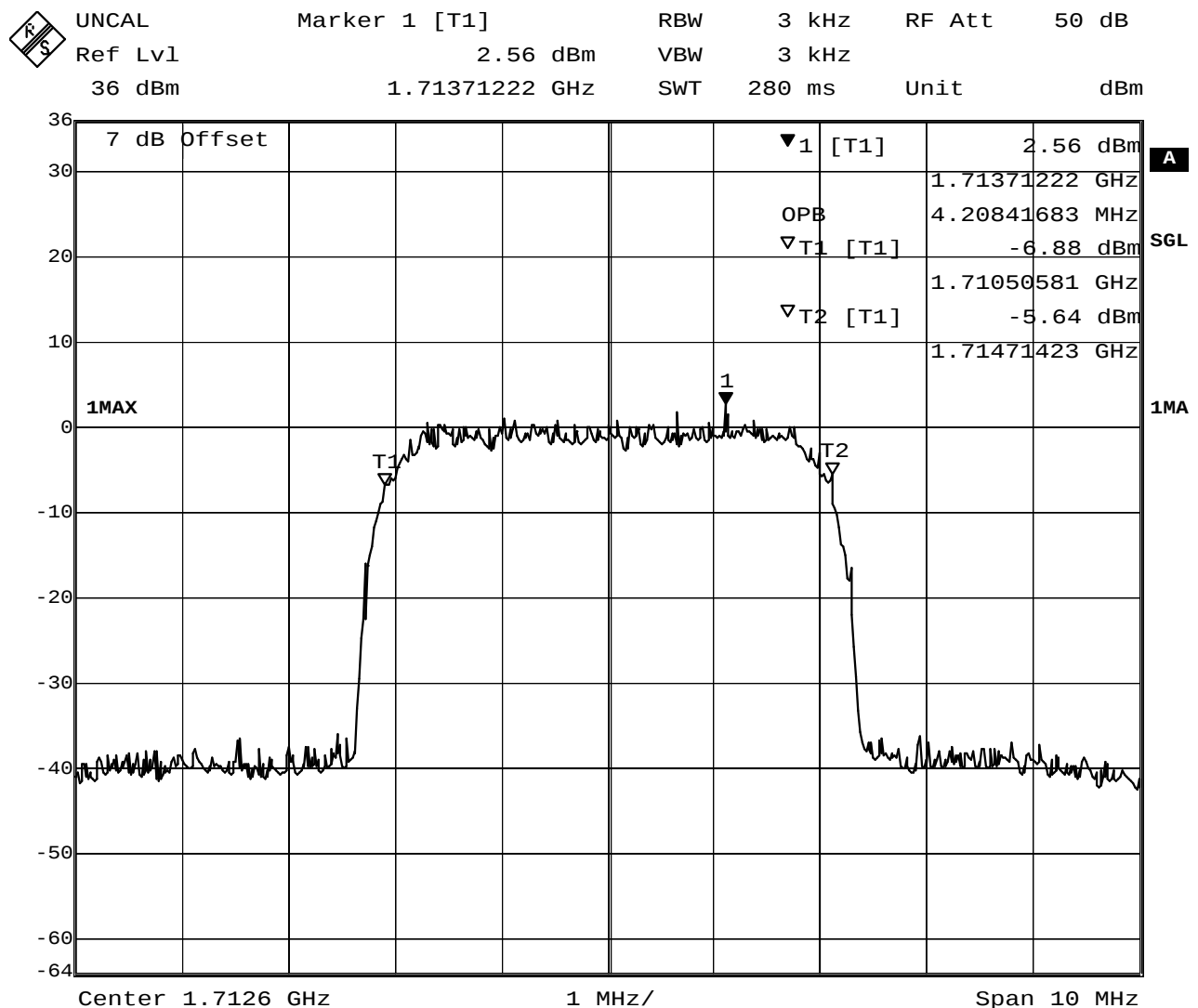
Date: 18.FEB.2009 14:50:52

Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C Occupied Bandwidth

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1313
Comment 2	HSUPA subtest 1
Comment 3	



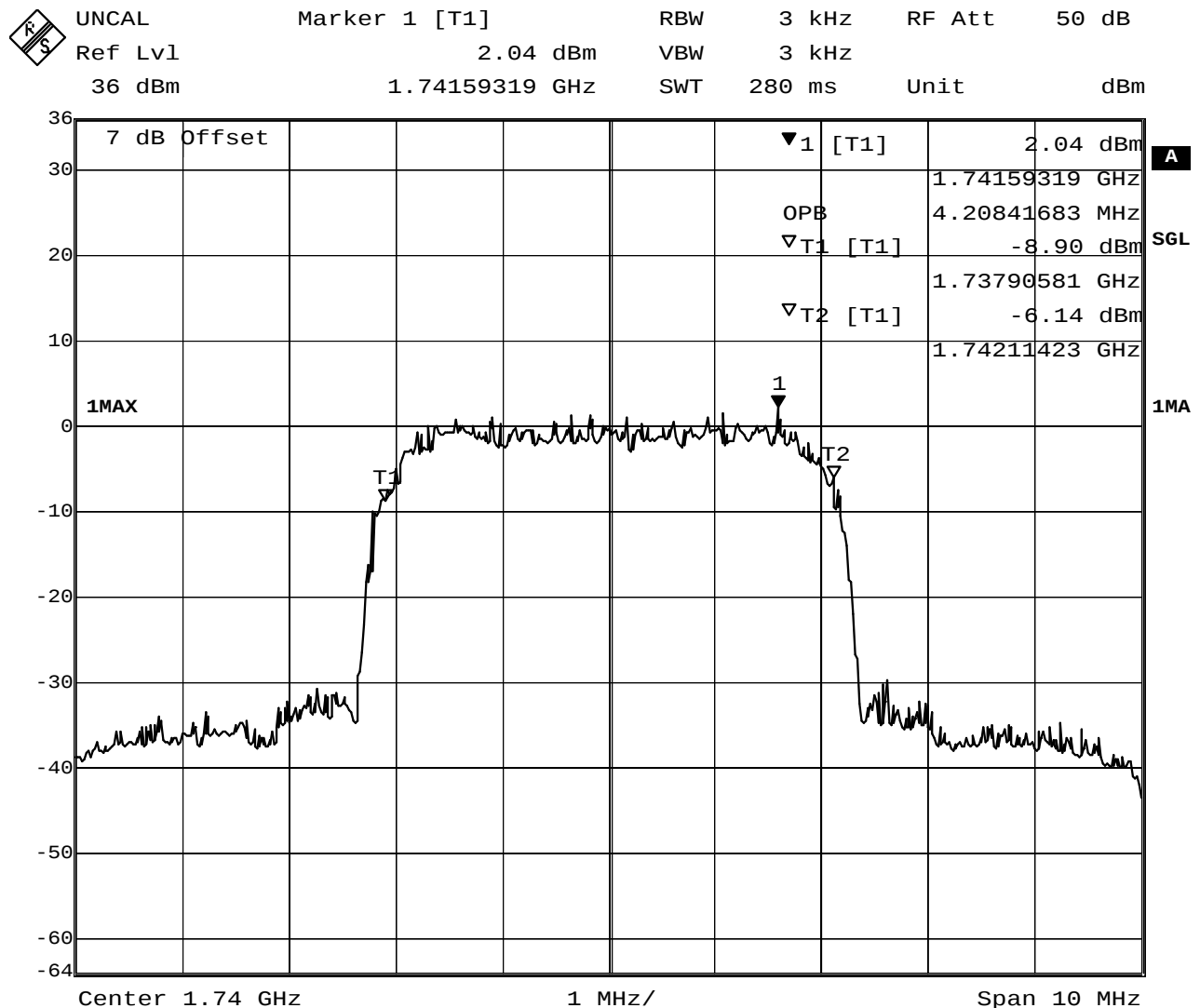
Date: 18.FEB.2009 16:37:15

Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C Occupied Bandwidth

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1450
Comment 2	HSUPA subtest 1
Comment 3	



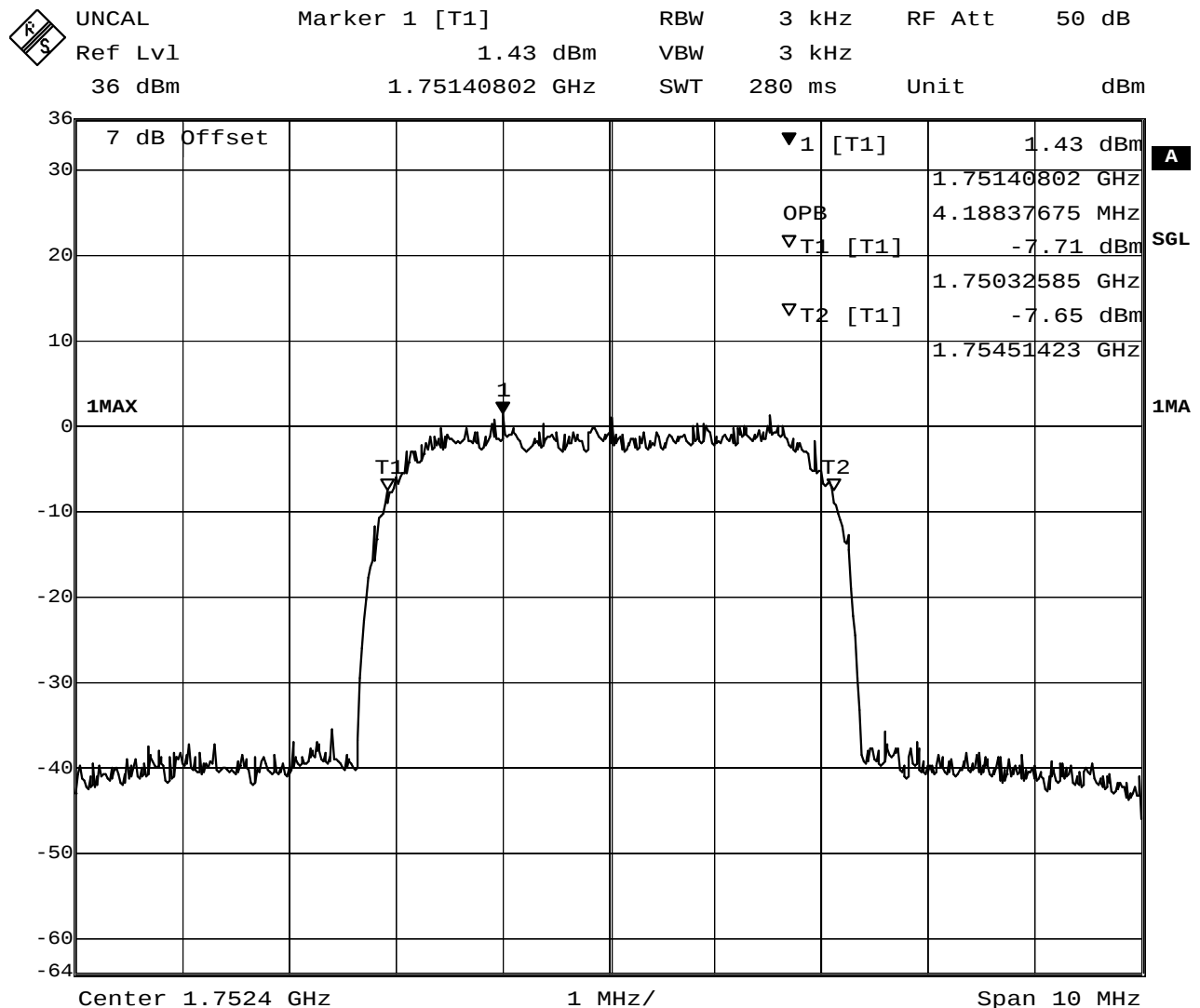
Date: 18.FEB.2009 16:38:37

Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C Occupied Bandwidth

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1512
Comment 2	HSUPA subtest 1
Comment 3	



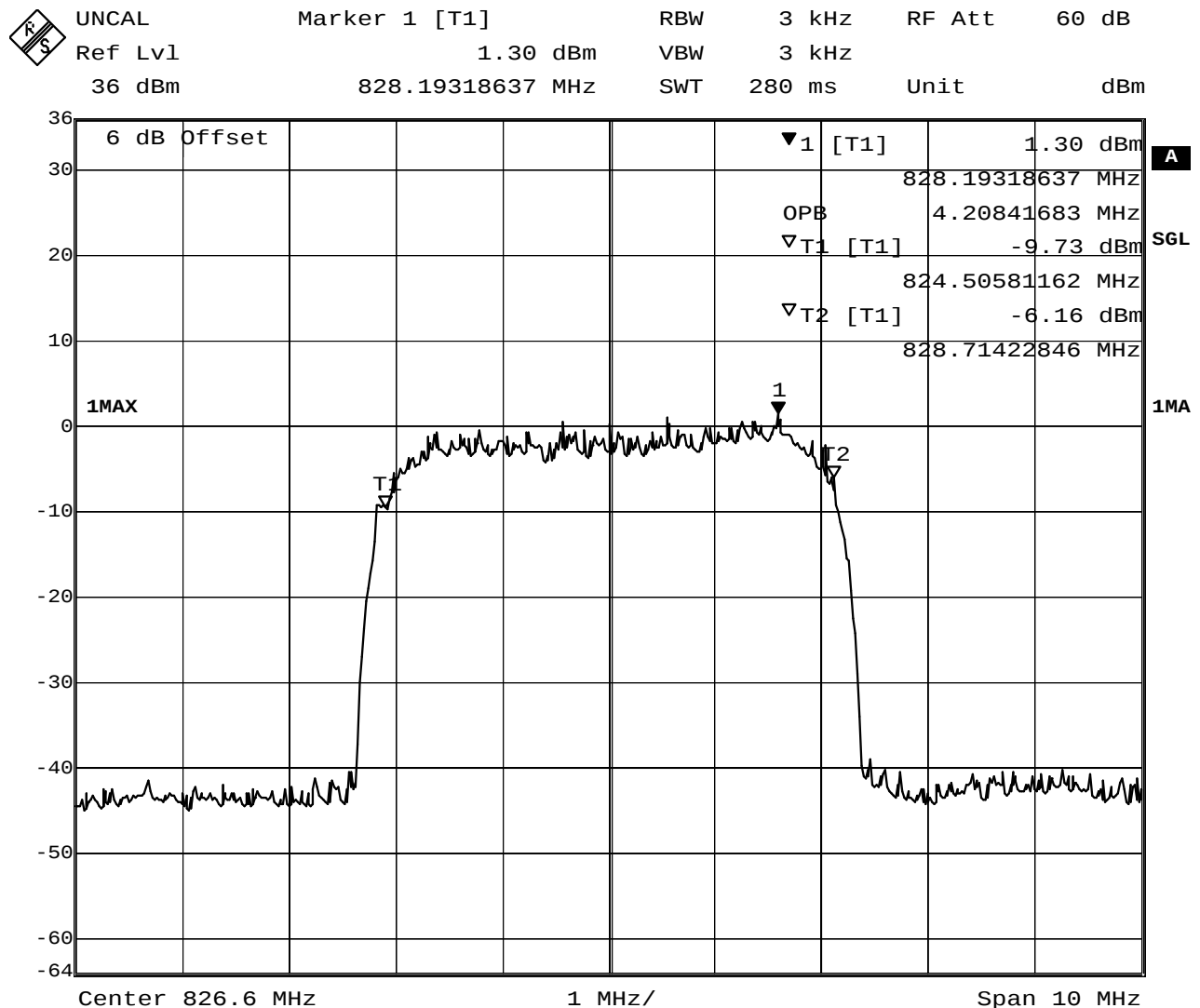
Date: 18.FEB.2009 16:41:11

Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H Occupied Bandwidth

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4133
Comment 2	HSUPA subtest 1
Comment 3	



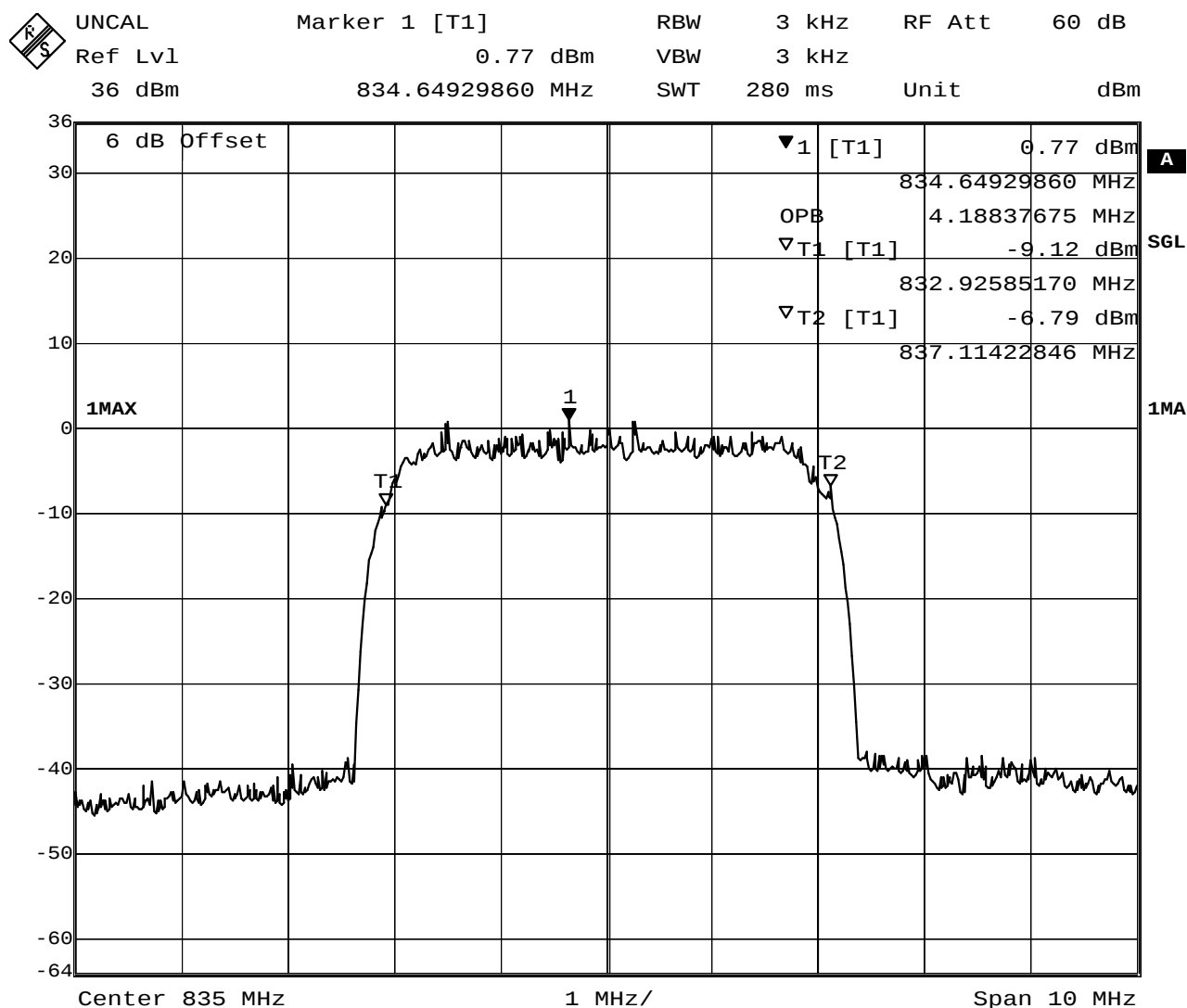
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Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H Occupied Bandwidth

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4175
Comment 2	HSUPA subtest 1
Comment 3	



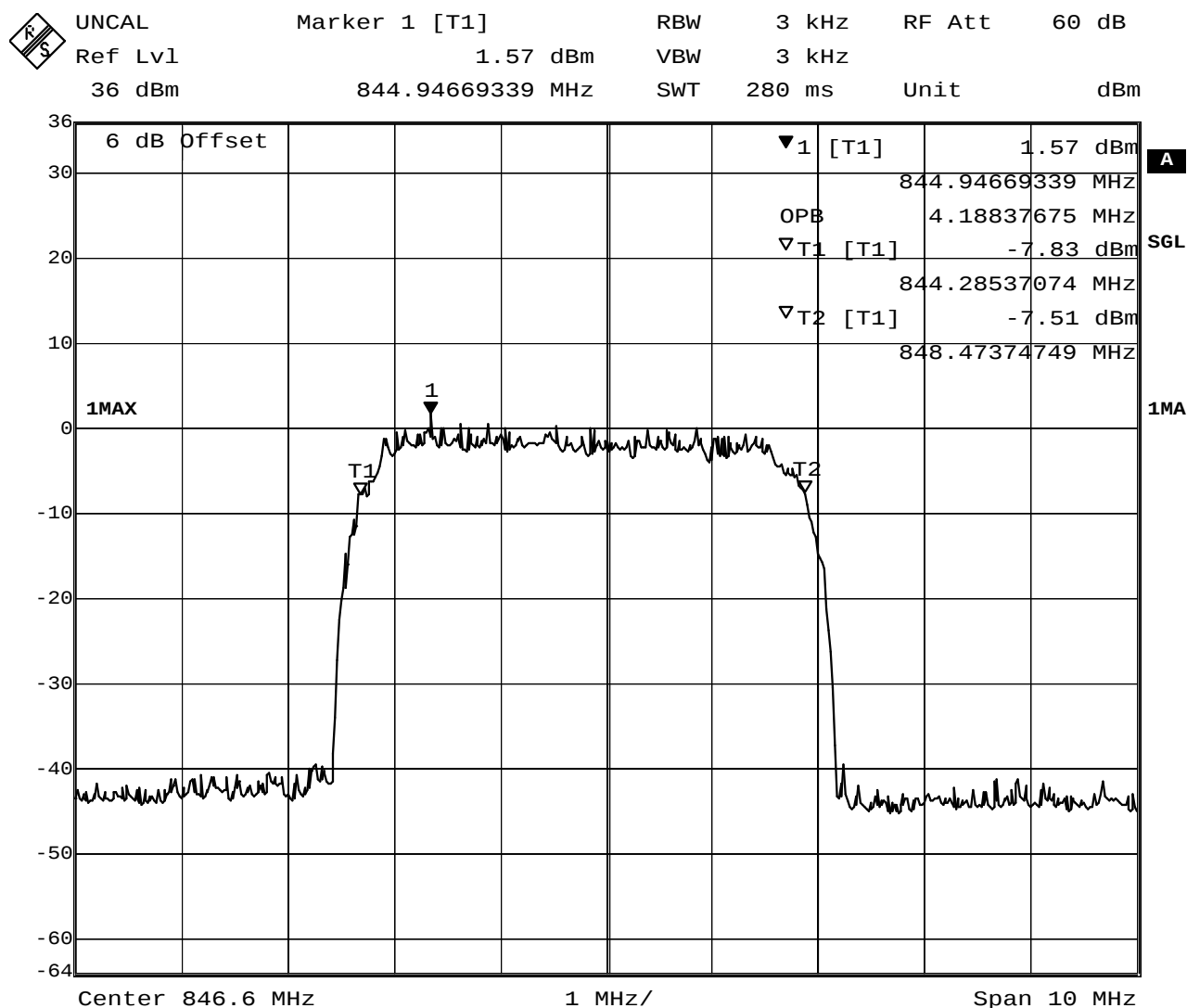
Date: 19.FEB.2009 08:32:52

Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H Occupied Bandwidth

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4232
Comment 2	HSUPA subtest 1
Comment 3	



Date: 19.FEB.2009 08:35:20

Measurement diagram

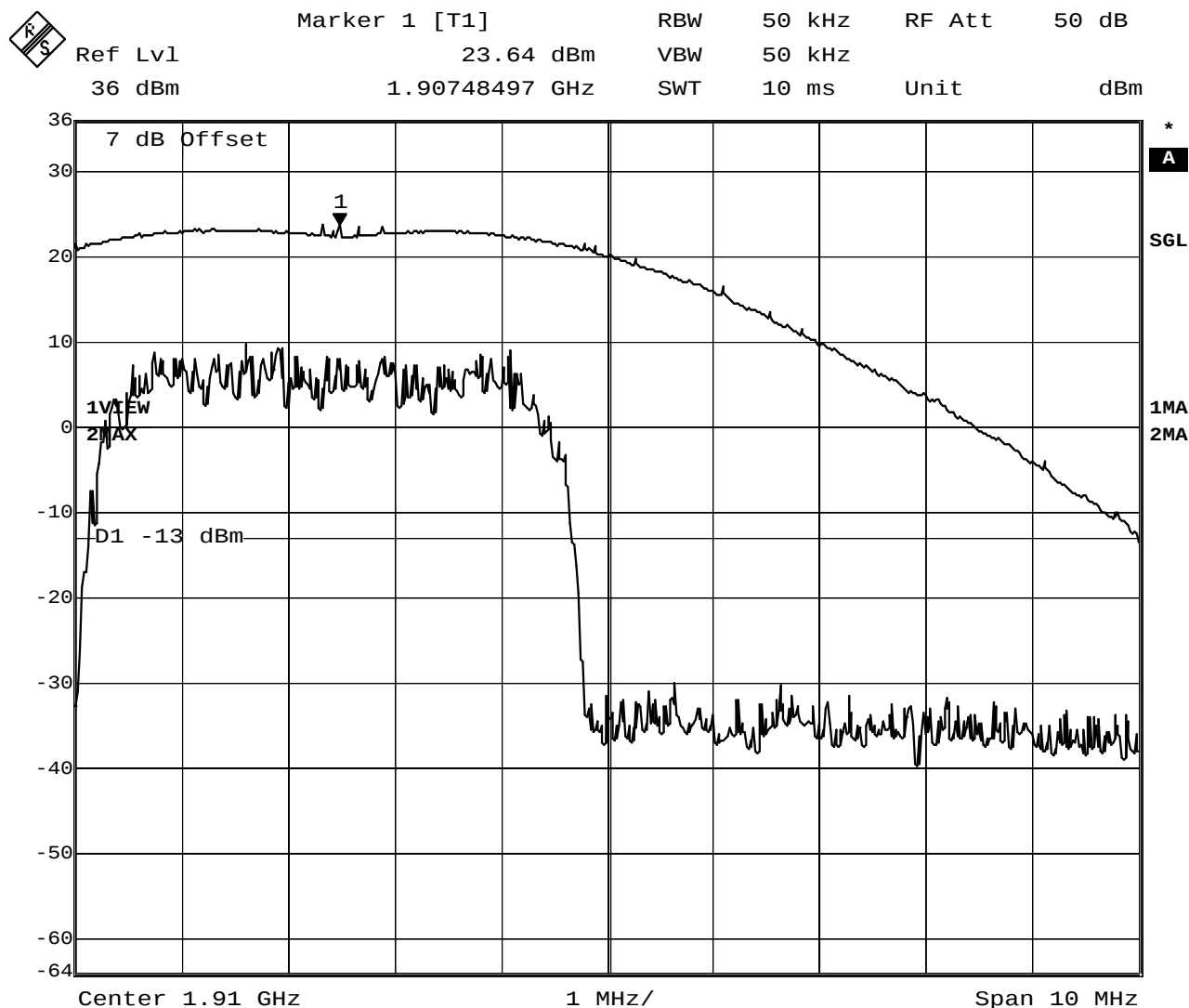
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Annex D

Block edge compliance

FCC Part 24 E Higher band edge

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9537
Comment 2	HSDPA subtest 1
Comment 3	



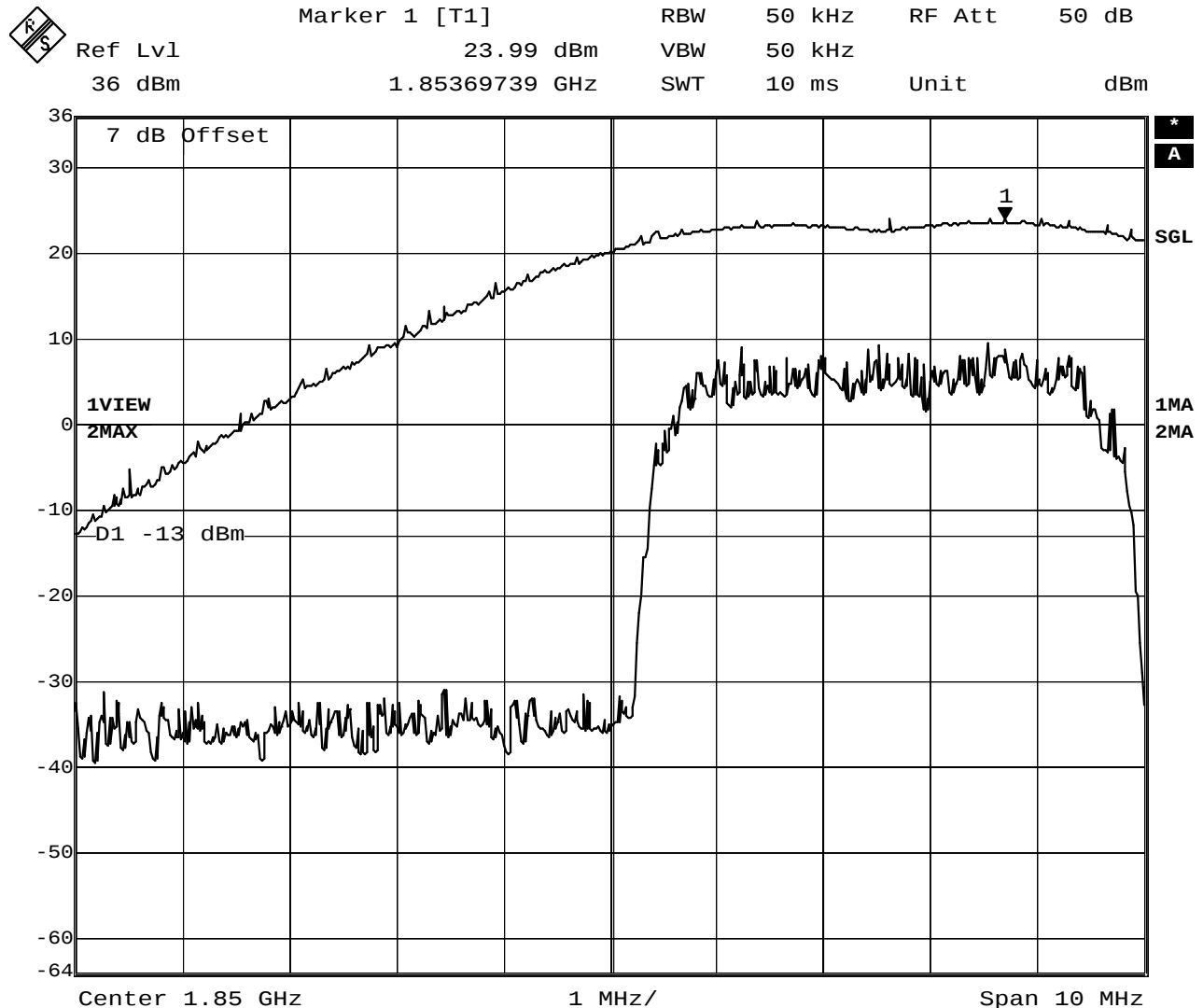
Date: 18.FEB.2009 15:53:48

Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E Lower band edge

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9263
Comment 2	HSDPA subtest 1
Comment 3	



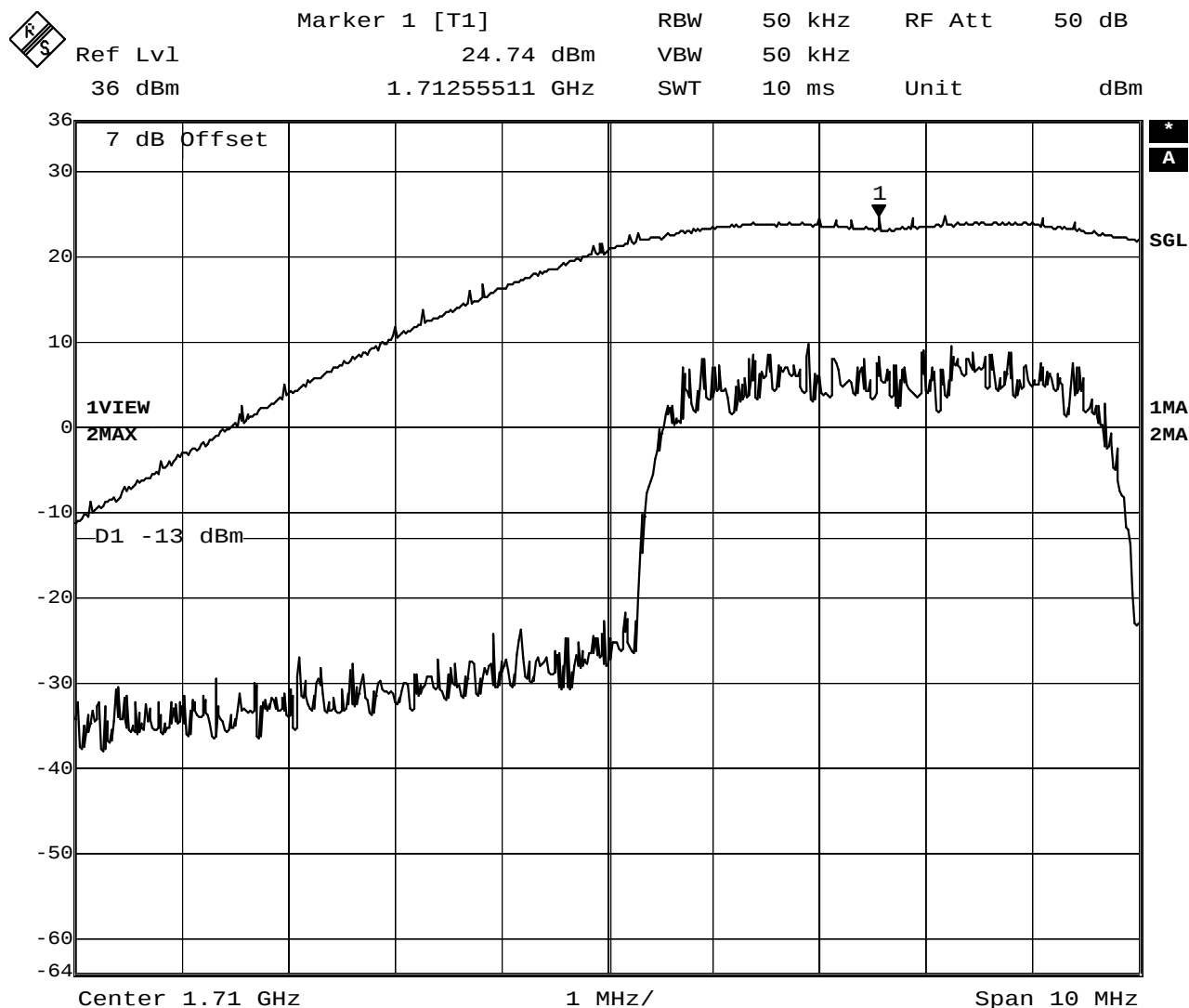
Date: 18.FEB.2009 15:45:12

Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C Lower band edge

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1313
Comment 2	HSDPA subtest 1
Comment 3	



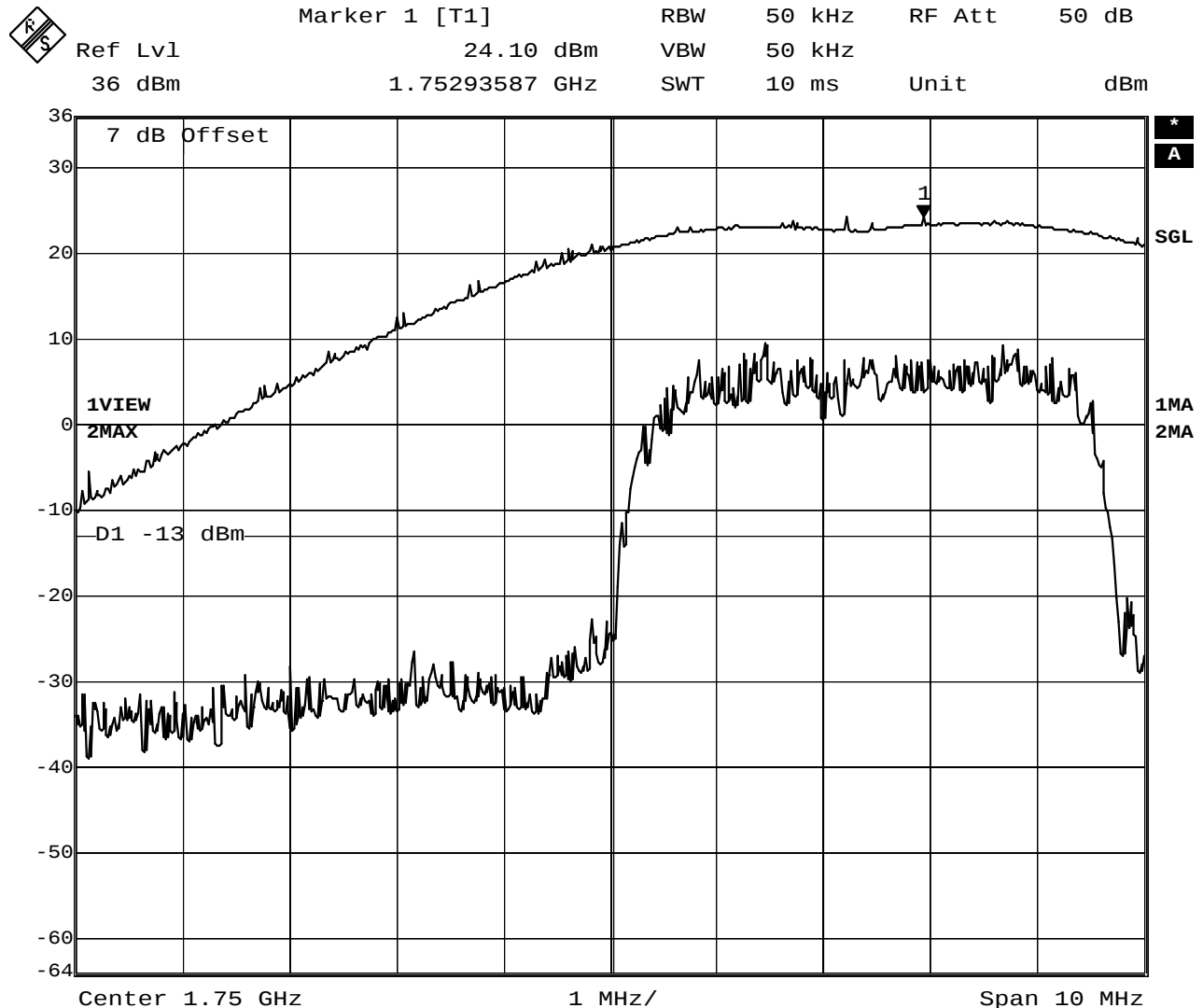
Date: 18.FEB.2009 16:13:15

Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C Higher band edge

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1512
Comment 2	HSDPA subtest 1
Comment 3	



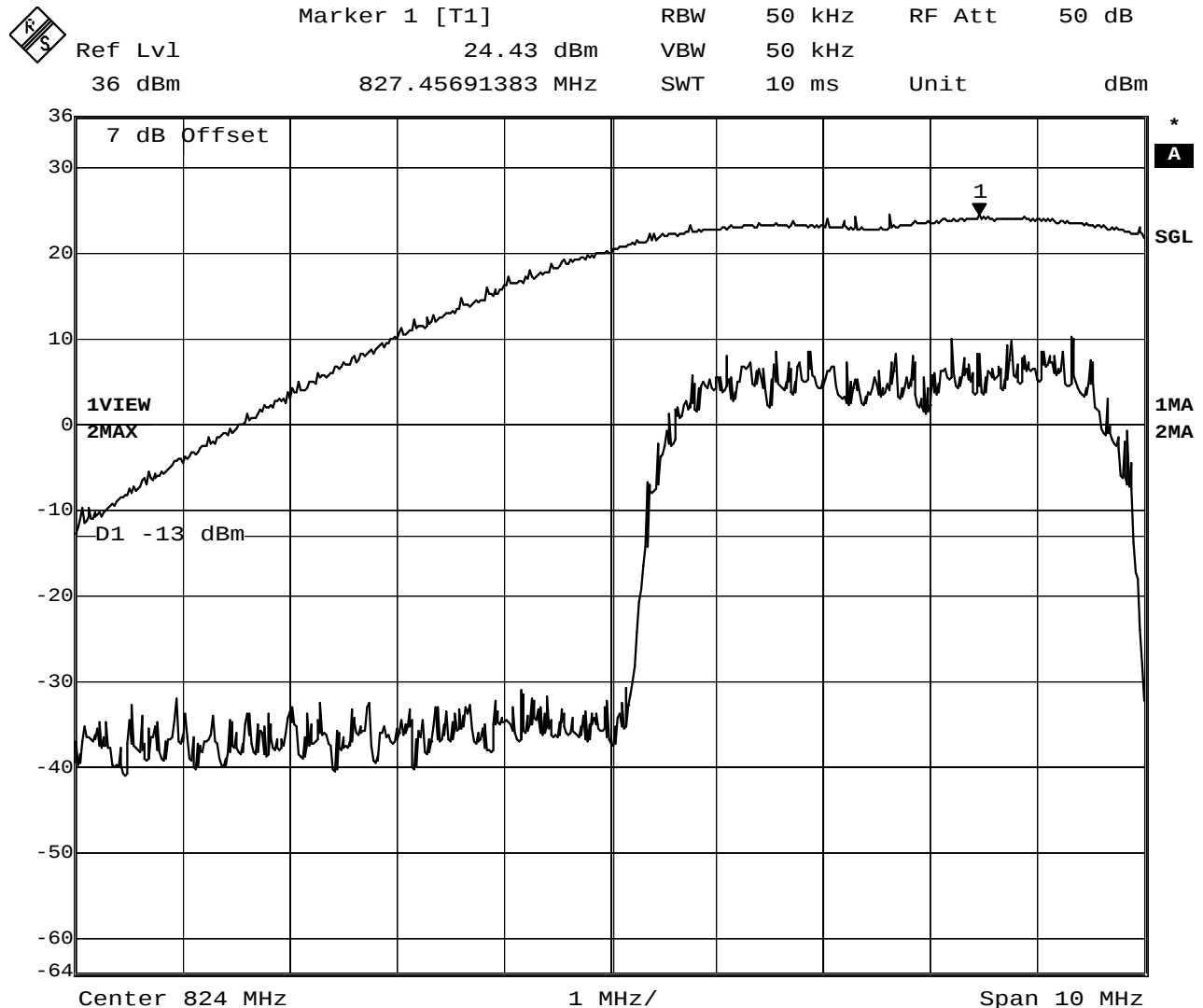
Date: 18.FEB.2009 16:19:34

Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H Lower band edge

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4133
Comment 2	HSDPA subtest 1
Comment 3	



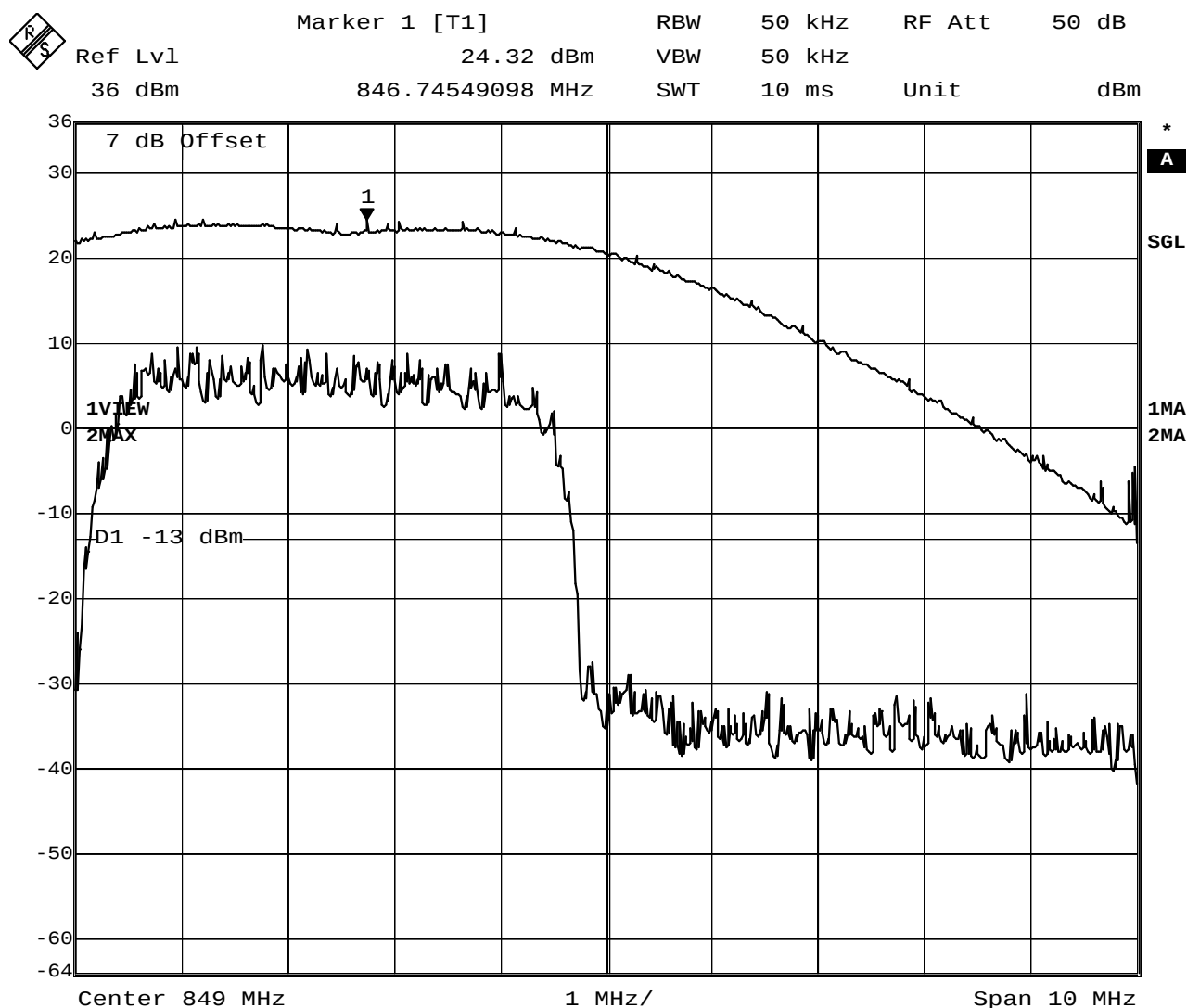
Date: 18.FEB.2009 17:18:26

Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H
Higher band edge

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4232
Comment 2	HSDPA subtest 1
Comment 3	



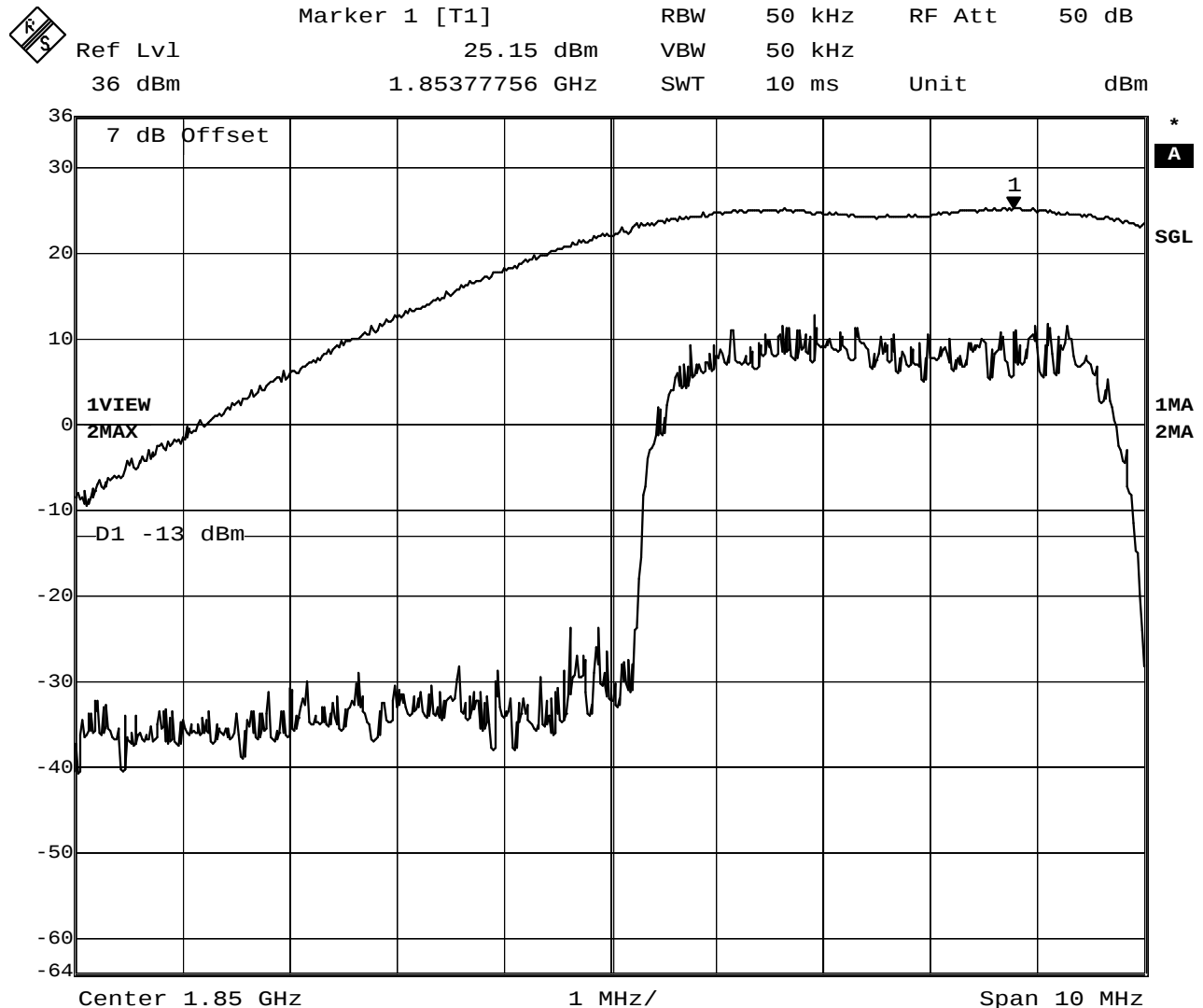
Date: 18.FEB.2009 17:26:48

Measurement diagram

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E Lower band edge

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9263
Comment 2	HSUPA subtest 1
Comment 3	



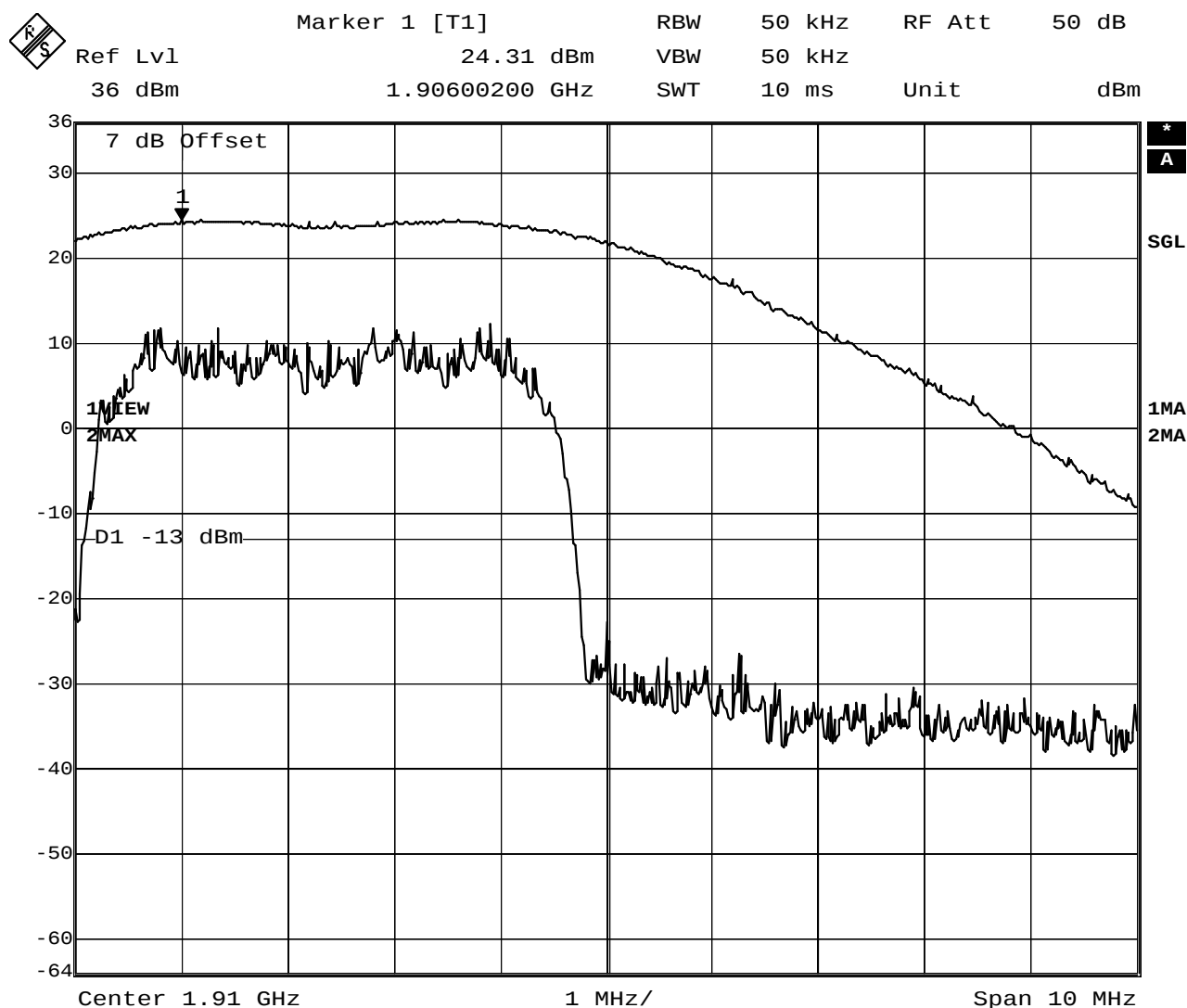
Date: 18.FEB.2009 14:55:29

Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 24 E Higher band edge

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 24 Subpart E
Comment 1	Channel: 9537
Comment 2	HSUPA subtest 1
Comment 3	



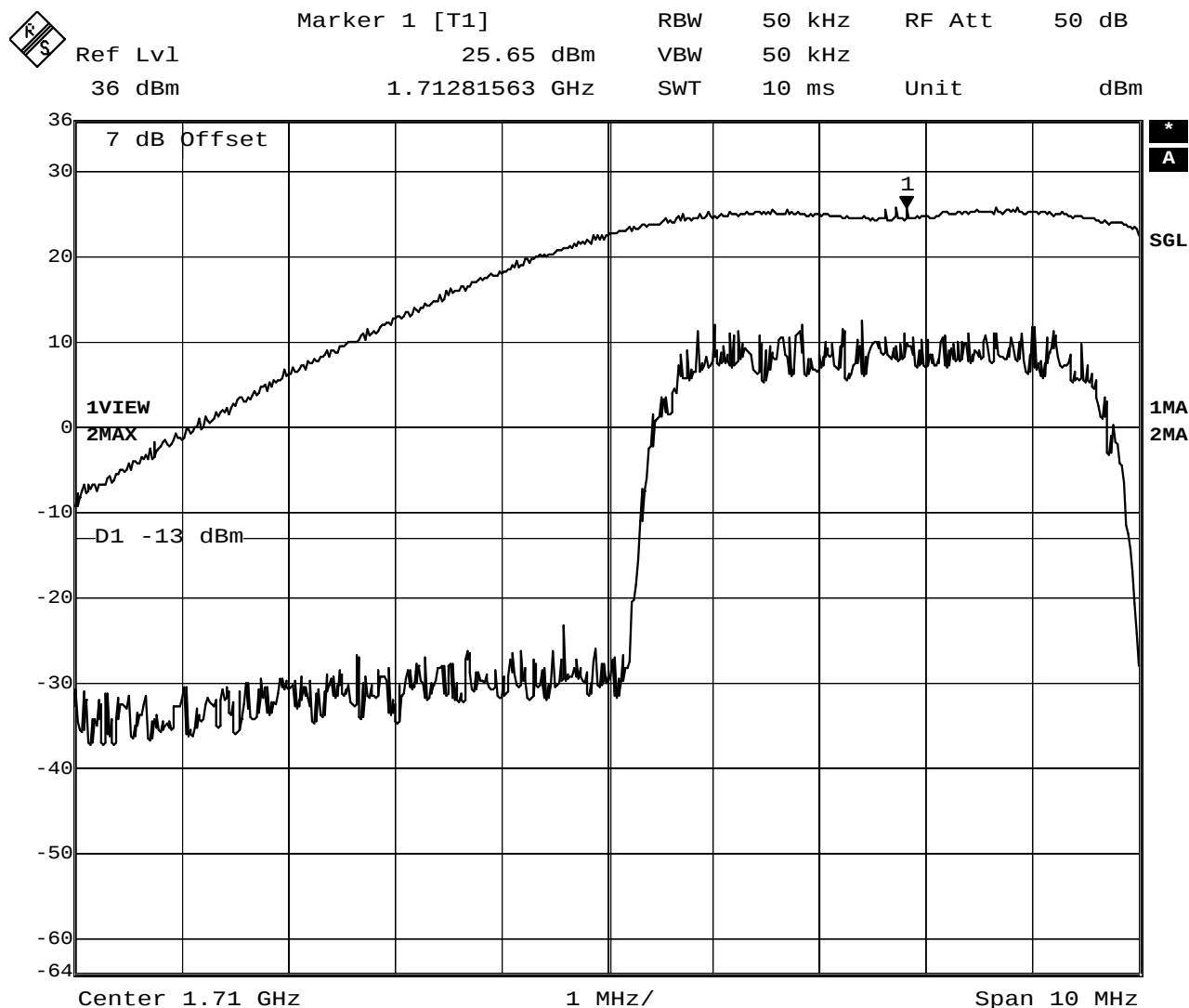
Date: 18.FEB.2009 14:52:13

Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C Lower band edge

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1313
Comment 2	HSUPA subtest 1
Comment 3	



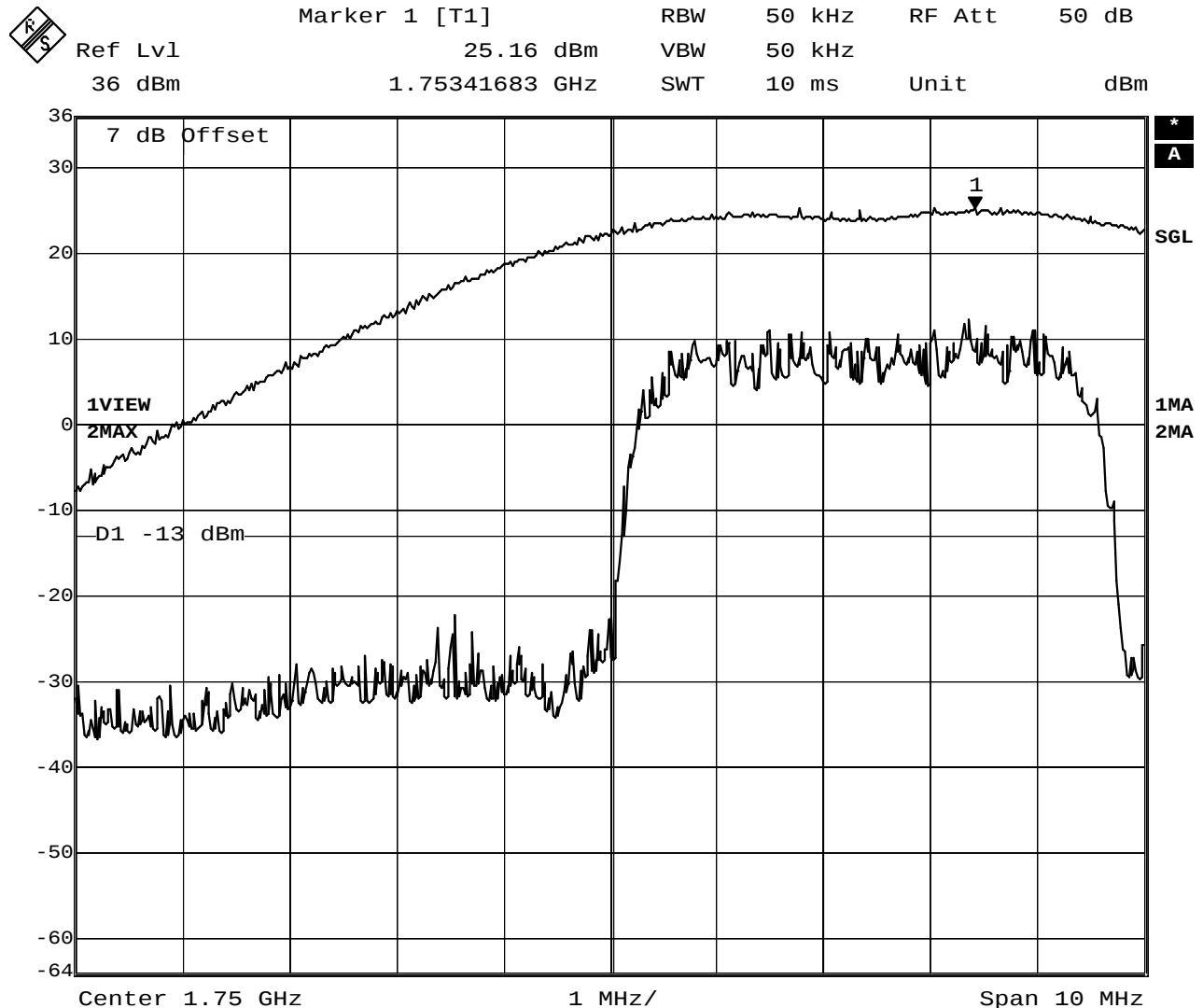
Date: 18.FEB.2009 16:36:02

Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 27C Higher band edge

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 27 Subpart C
Comment 1	Channel: 1512
Comment 2	HSUPA subtest 1
Comment 3	



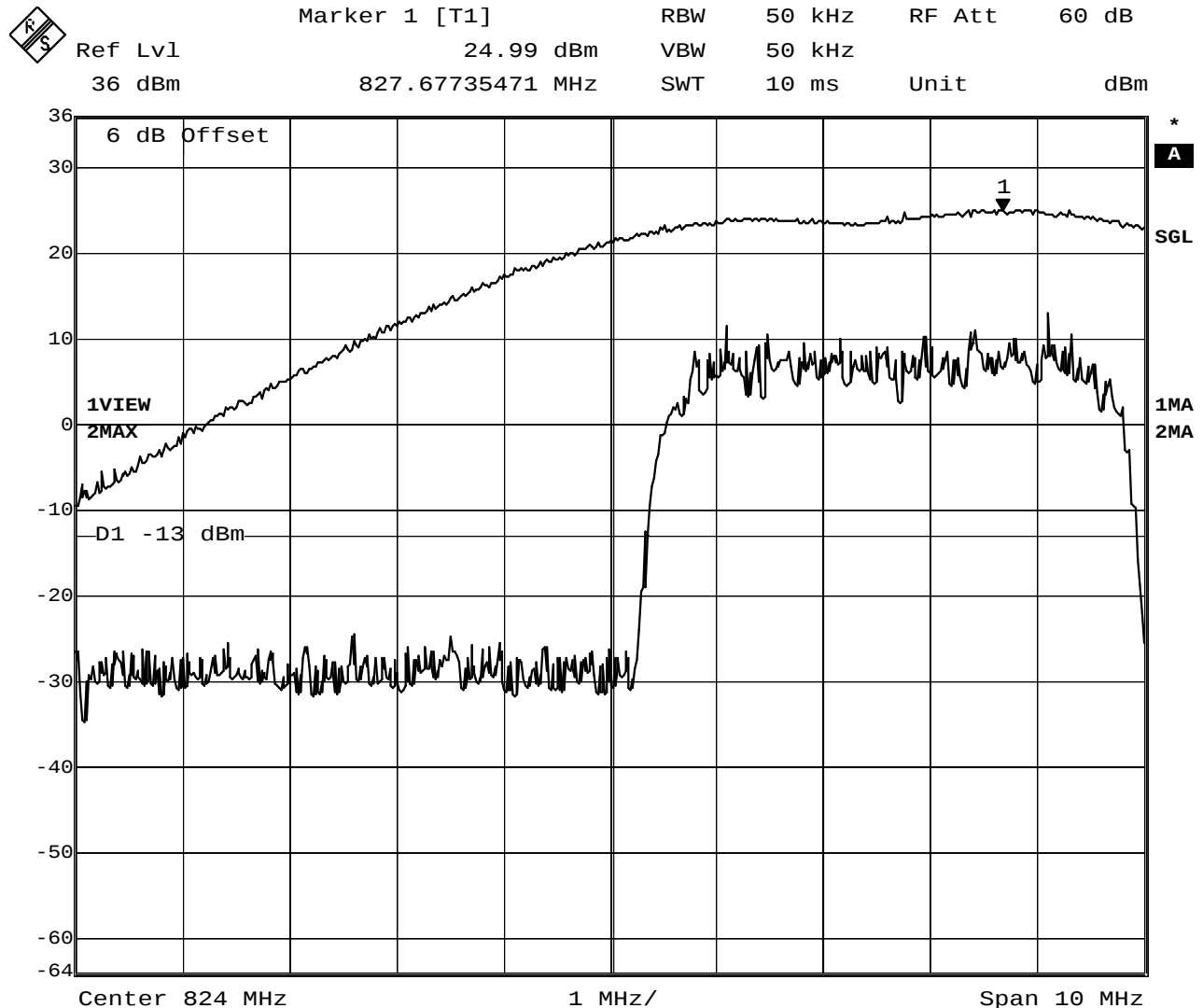
Date: 18.FEB.2009 16:41:56

Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H Lower band edge

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4133
Comment 2	HSUPA subtest 1
Comment 3	



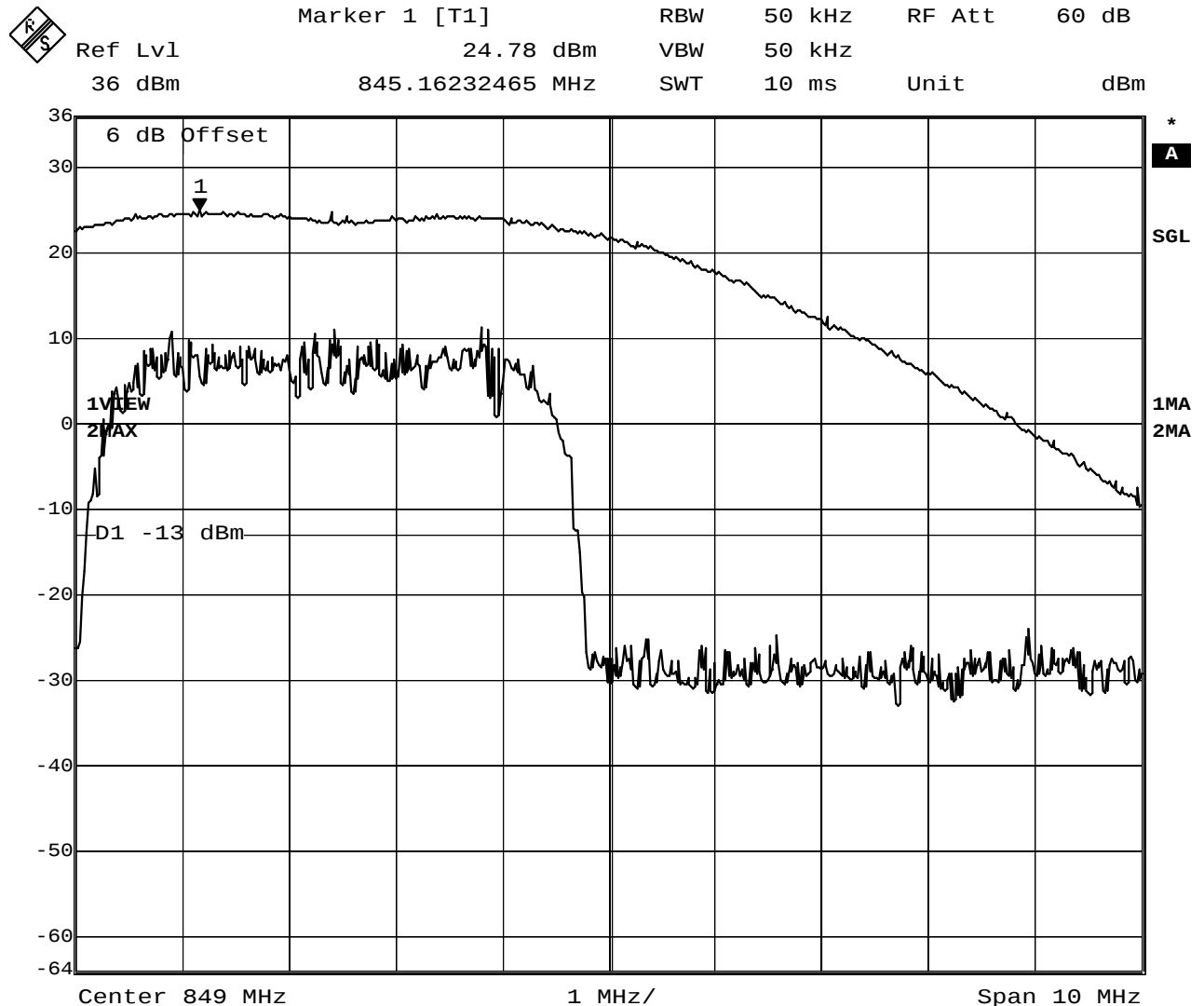
Date: 19.FEB.2009 08:30:04

Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

FCC Part 22 H Higher band edge

EUT	USB Dongle
Model	GI 452 [iCON 452]
Approval Holder	Option NV
Temperature / Voltage	24°C / Unom: 5,0 V DC (USB)
Test Site / Operator	G0M20902-2211 - S 6 / Mr. Walter
Test Specification	FCC Part 22 Subpart H
Comment 1	Channel: 4232
Comment 2	HSUPA subtest 1
Comment 3	



Date: 19.FEB.2009 08:36:19

Measurement diagram

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany