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Federal Communications Commission
Anechoic chamber registration no.: 90462 (FCC)
Anechoic chamber registration no.: 3463A-1 (IC)
TCB ID: DE 0001



Accredited by the
German Accreditation Council
DAR-Registration Number
DAT-P-176/94-D1



Independent ETSI
compliance test house



Accredited Bluetooth® Test Facility (BQTF)

Test report no. : 2-4535-01-02/06
Applicant : Siemens Home and Office
Communication GmbH
Type : Gigaset SX762/763/765
Test Standard : FCC Part 15.247
RSS210 Issue 6
FCC ID : TVU-SX762-SX765-D
Certification No. IC : 267U-SX762765D

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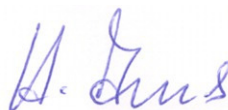
ANNEX 1: TECHNICAL PRODUCT DESCRIPTION

1. Administrative data

1.1. Administrative data of the test facility

1.1.1 Identification of the testing laboratory

Company name:	Cetecom ICT Services GmbH
Address:	Untertürkheimerstr. 6-10 D-66117 Saarbruecken Germany
Laboratory accreditation:	DAR-Registration No. DAT-P-176/94-D1 Bluetooth Qualification Test Facility (BQTF)
Responsible for testing laboratory:	Michael Berg Phone: +49 681 598 0 Fax: +49 681 598 9075 email: info@ict.cetecom.de



.....
Responsible for testing
(Harro Ames)

1.1.2 Organizational items

Reference No.:	2-4535-01-02/06
Order No.:	
Receipt of EUT:	2006-12-11
Date(s) of test:	2006-12-11 to 2006-12-12
Date of report:	2007-02-16
Number of report pages:	84
Number of diagram pages (annex):	

Version of template:	1.2



.....
Responsible for laboratory
(Michael Berg)

Note:

The test results of this test report relate exclusively to the item tested as specified in this report. The CETECOM ICT Services GmbH does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item.

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During the test no hardware and software changes are allowed to be performed at the EUT.

1.1.3 Applicant's details

Applicant's name:	Siemens Home and Office Communication GmbH
Address:	Frankenstrasse 2 D-46395 Bocholt Germany
Contact person:	M. Kai Siebels Phone: +49 (0)2871 91 2443 Fax: email: kai.siebels@siemens.com

1.2 Administrative data of manufacturer / member

Manufacturer's name:	- applicant -
Address:	

1.3 Description of the Equipment under test (EUT)

1.3.1 EUT: Type, S/N etc.

Product Name:	Gigaset SX762/763/765
Product ID:	
Product Description:	WLAN DSL Router
S/N serial number:	-
HW Hardware Status:	3.D1f
SW Software Status:	SW11
Frequency Range [MHz]:	2412 – 2462 MHz
Type of Modulation:	DSSS, OFDM
Number of Channels:	11
Antenna:	1 external rod antenna (Type: DAML1BM11400208 from INPAQ TECHNOLOGY CO.,LTD) 1 internal print antenna
Power Supply:	12V DC via external power supply
Temperature Range:	-20° C to +55° C

Max. power radiated: 16.6 dBm

Max. power conducted: 17.2 dBm

FCC ID: TVU-SX762-SX765-D

IC: 267U-SX762765D

1.3.2 If RF component testing only, description of additional used HW/SW

	Product name	Product ID	Description	S/N serial number	HW hardware status	SW software status
1						
2						
3						
4						

1.3.3 Additional EUT information For IC Canada (appendix 2)

IC Registration Number:	267U-SX762765D
Model Number:	Gigaset SX762/763/765
Manufacturer:	Siemens Home and Office Communication GmbH Frankenstrasse 2 D-46395 Bocholt Germany
Tested to Radio Standards Specification (RSS) No.:	RSS-210 Issue 6
Open Area Test Site Industry Canada Number:	3463A-1
Frequency Range (or fixed frequency) [MHz]:	2412 – 2462 MHz
RF: Power [W] (max):	Rad. EIRP: 16.6 dBm , 45.7 mW Conducted : 17.2 dBm, 52.5 mW
Antenna Type:	1 external rod antenna Type: DAML1BM11400208 from INPAQ TECHNOLOGY CO.,LTD 1 internal print antenna
Field Strength [dB μ V/m in 3m]:	114 dB μ V/m@3m
Occupied Bandwidth (99% BW) [kHz]:	16506 kHz
Type of Modulation:	DSSS, OFDM
Emission Designator (TRC-43):	12M4G1D (DSSS), 16M5G7D (OFDM)
Transmitter Spurious (worst case) [μ V/m in 3m]:	31.5 dB μ V/m@3m at 120 MHz
Receiver Spurious (worst case) [μ V/m in 3m]:	No peaks found above noise floor

ATTESTATION:

DECLARATION OF COMPLIANCE: I declare that the testing was performed or supervised by me; that the test measurements were made in accordance with the above-mentioned Industry Canada standard(s); and that the equipment identified in this application has been subjected to all the applicable test conditions specified in the Industry Canada standards and all of the requirements of the standard have been met.

Signature:



Date: 2007-02-16

Test engineer: Harro Ames

CETECOM ICT Services GmbH

Untertürkheimer Str. 6-10, 66117 Saarbruecken
RSC-Laboratory

Phone: +49 (0) 681 598-0
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Fax: -9075
Fax: -9075



Test report no.: 2-4535-01-02/06

Date: 2007-02-16

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1.3.4 EUT operating modes

EUT operating mode no.*)	Description of operating modes	Additional information
Op. 0	Normal mode	Normal temperature and power source conditions
Op. 1		low temperature, low power source conditions
Op. 3		low temperature, high power source conditions
Op. 4		high temperature, low power source conditions
Op. 5		high temperature, high power source conditions

*) EUT operating mode no. is used to simplify the test report.

1.3.5 Extreme conditions testing values

Description	Shortcut	Unit	Value
Nominal Temperature / humidity	T _{nom}	°C / %	+23° / 38%
Low Temperature	T _{low}	°C	-20°
High Temperature	T _{high}	°C	+55°
Nominal Power Source	V _{nom}	V	12.0
Low Power Source	V _{low}	V	10.2
High Power Source	V _{high}	V	13.8

Type of powersource: V DC

Voltage variation was performed with a special board-extender with external power supply.

During extreme voltage tests there were no change of behavior on the card.
Output power, power density and bandwidth did not change.

2 Teststandard & summary list of all performed test cases

TC identifier	Description	verdict	date	Remark
RF-Testing	FCC Part 15 §15.247 - CANADA RSS-210			

Test Specification Clause	Test Case	Pass	Fail	Not applicable	Not performed
None	Antenna Gain	Yes			
§15.247 (e)	Peak power spectral density	Yes			
§15.247(a)(2)	Spectrum Bandwidth of a DSSS / OFDM System / 6dB BW	Yes			
§ 15.247 (b)(3)	Maximum output power (conducted)	Yes			
§ 15.247 (b)(3)	Max. peak output power (radiated)	Yes			
§15.247 (d)	Band-edge compliance of conducted emissions	Yes			
§15.205	Band-edge compliance of radiated emissions	Yes			
§15.247 (d)	Spurious Emission - conducted (Transmitter)	Yes			
§ 15.209	Spurious Emission -radiated (Transmitter)	Yes			
§ 15.109	Spurious Emissions-radiated (Receiver)	Yes			
§ 15.209	Spurious Emissions-radiated <30 MHz	Yes			
§ 15.107/207	Conducted Emissions <30 MHz	Yes			

3 RF measurement testing

3.1 Description of test set-up

3.1.1 Radiated measurements

The radiated measurements are performed in vertical and horizontal plane in the frequency range from 9 kHz to 20 GHz in semi-anechoic chambers. The EUT is positioned on a non-conductive support with a height of 0.80 m above a conductive ground plane that covers the whole chamber. The receiving antennas conform with specifications ANSI C63.2-1996 clause 15 and ANSI C63.4-2003 clause 4.1.5. These antennas can be moved over the height range between 1.0 m and 4.0 m in order to search for maximum field strength emitted from EUT. The measurement distances between EUT and receiving antennas are indicated in the test set-ups for the various frequency ranges. For each measurement, the EUT is rotated in all three axes until the maximum field strength is received.

The wanted and unwanted emissions are received by spectrum analysers where the detector modes and resolution bandwidths over various frequency ranges are set according to requirement ANSI C63.4-2003 clause 4.2.

Antennas conform with ANSI C63.2-1996 item 15.

9 kHz - 150 MHz: Quasi Peak measurement, 200 Hz Bandwidth, passive loop antenna.

150 kHz - 30 MHz: Quasi Peak measurement, 9kHz Bandwidth, passive loop antenna.

30 MHz - 200 MHz: Quasi Peak measurement, 120KHz Bandwidth, biconical antenna

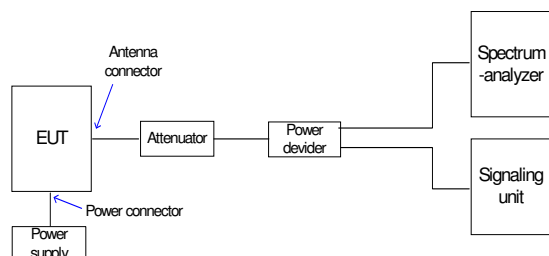
200MHz - 1GHz: Quasi Peak measurement, 120KHz Bandwidth, log periodic antenna

>1GHz: Average, RBW 1MHz, VBW 10 Hz, wave guide horn

All measurement settings are according to FCC 15.209 and 15.207

3.1.2 Conducted measurements

The EUT's RF signal is coupled out by the antenna connector which is supplied by the manufacturer. The signal is connected to the spectrum analyzer. The specific losses for signal paths are first checked within a calibration. The measurement readings on the spectrum analyzer are corrected by the specific test set-up loss. The attenuator, power divider, signaling unit and the spectrum analyzer are impedance matched on 50 Ohm.



3.2 Referenced Documents

none

3.3 Additional comments

All settings and measurement procedures are according “Measurement of Digital Transmission Systems operating under Section 15.247, March 23,2005.

3.4 Antenna gain

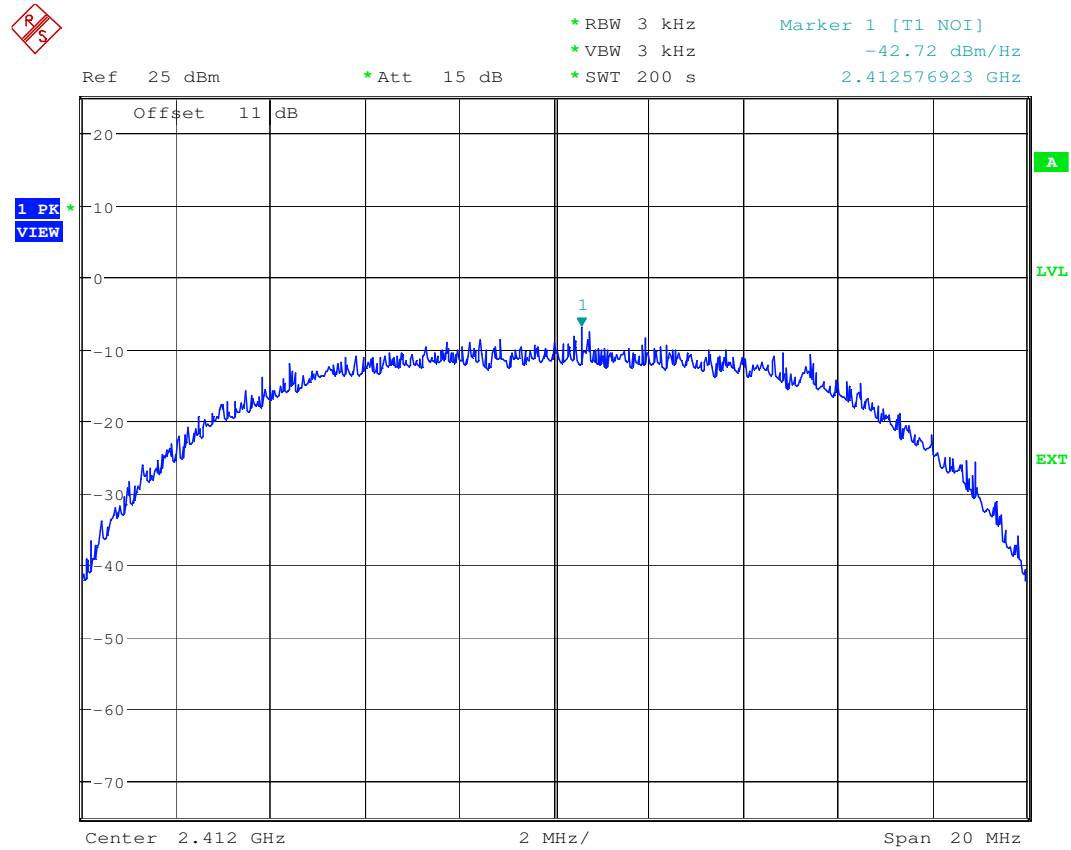
The antenna gain of the complete system is calculated by the difference of radiated power in EIRP and the conducted power of the module.

	low channel	mid channel	high channel
Conducted power [dBm]	16.3	16.6	17.1
Radiated power [dBm]	14.6	15.3	15.8
Gain [dBi]	-1.7	-1.3	-1.3

3.5 Peak Power Spectral density (digitally modulated systems) §15.247(e)

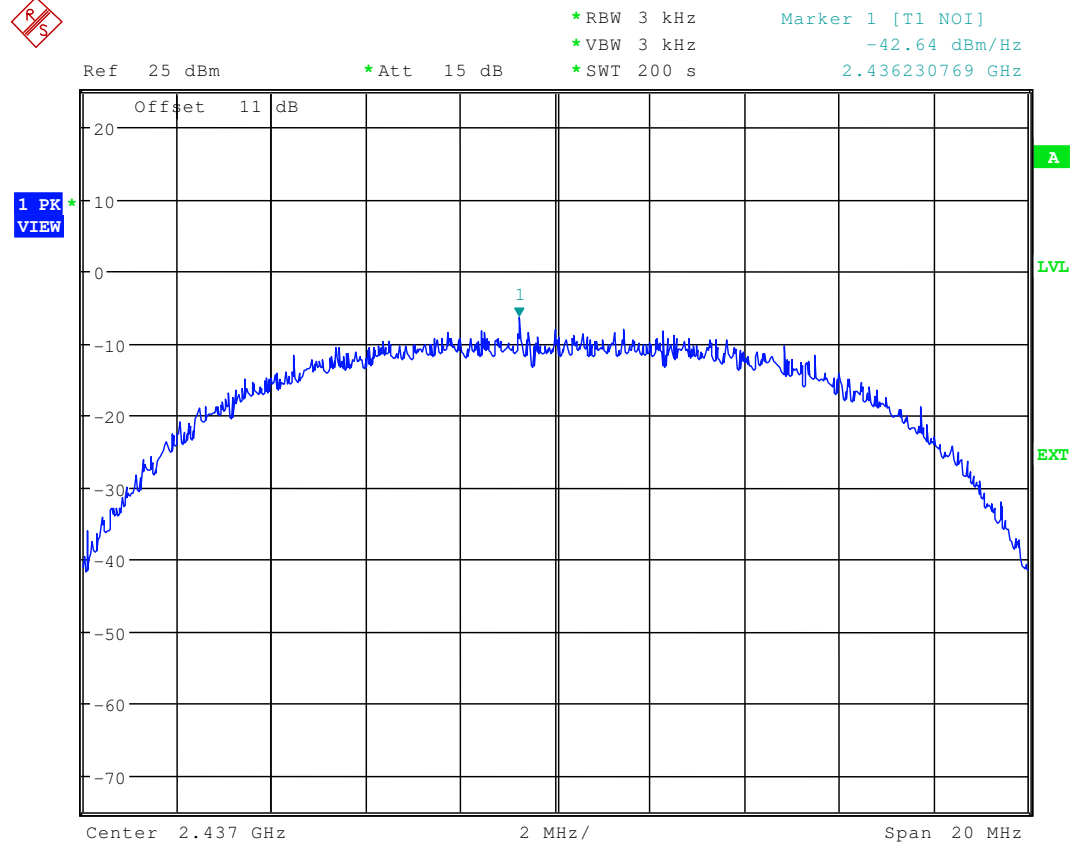
Used measuring option is PSD Option 1, as we measured the power as peak power.

Plot 1: (result calculated by the spectrum analyzer FSU50 from Rohde & Schwarz)

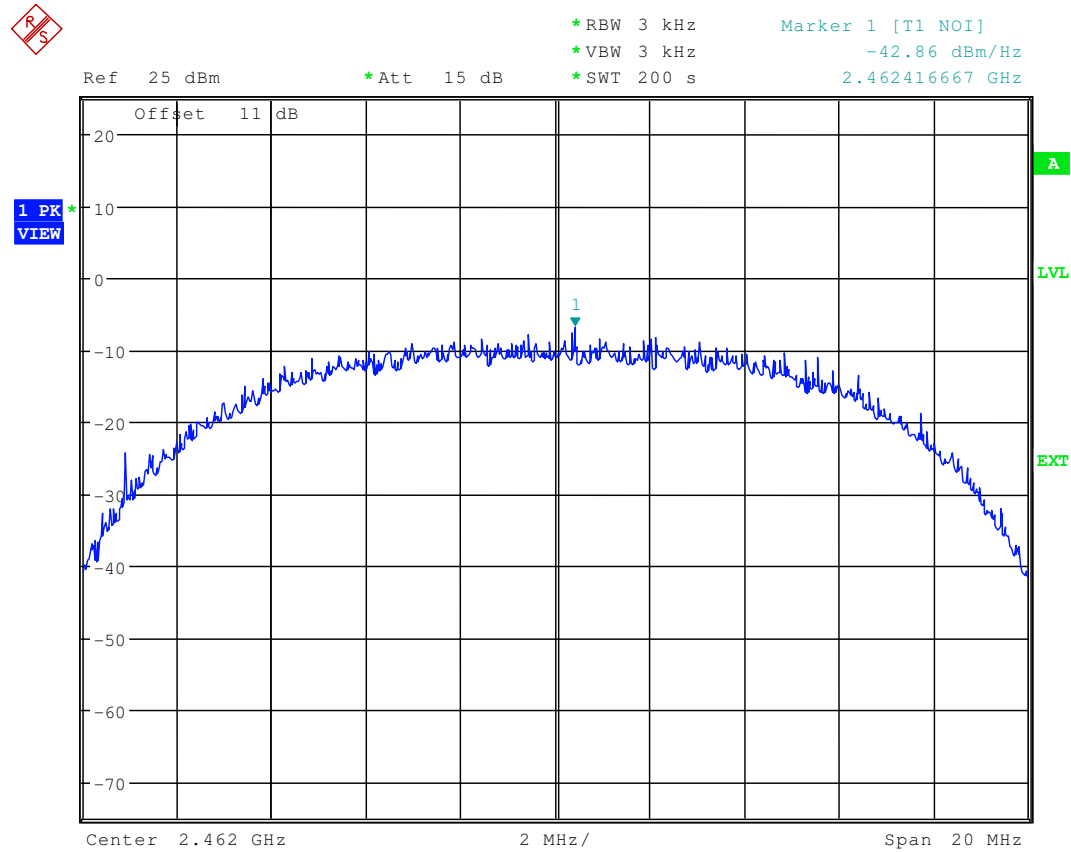


Date: 12.DEC.2006 13:57:19

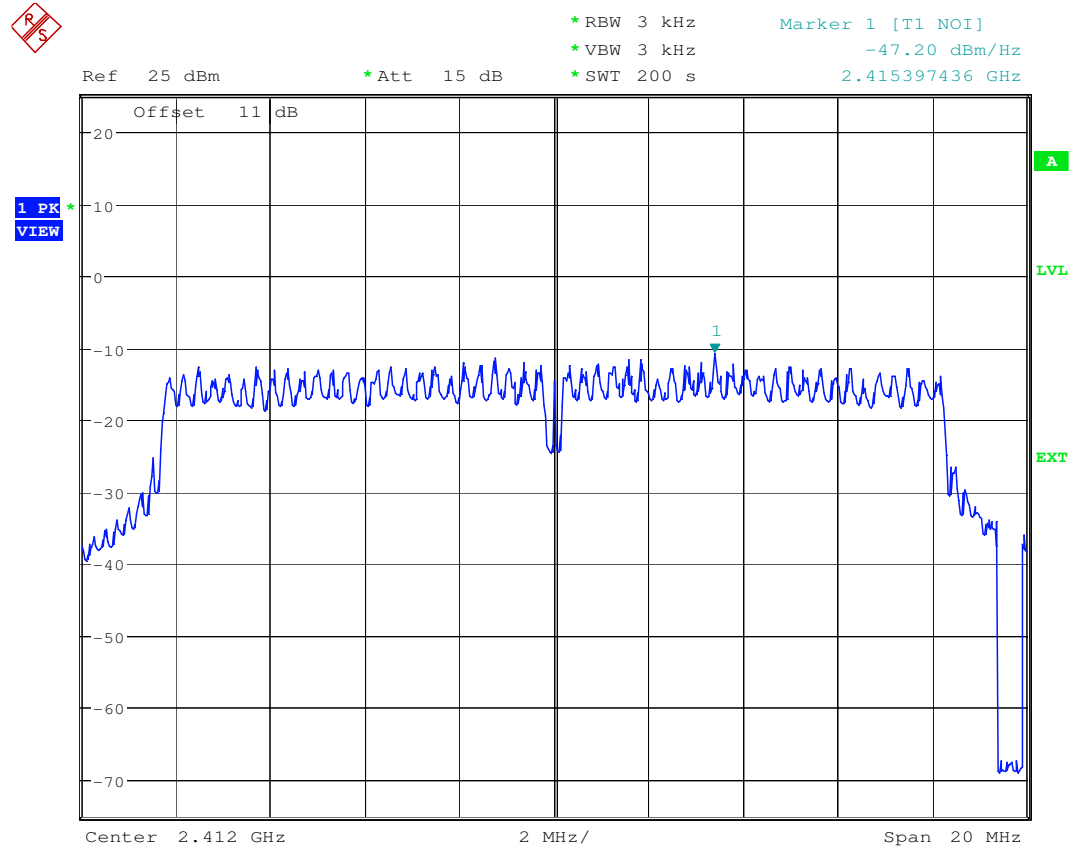
Plot 2: (result calculated by the spectrum analyzer FSU50 from Rohde & Schwarz)



Plot 3: (result calculated by the spectrum analyzer FSU50 from Rohde & Schwarz)

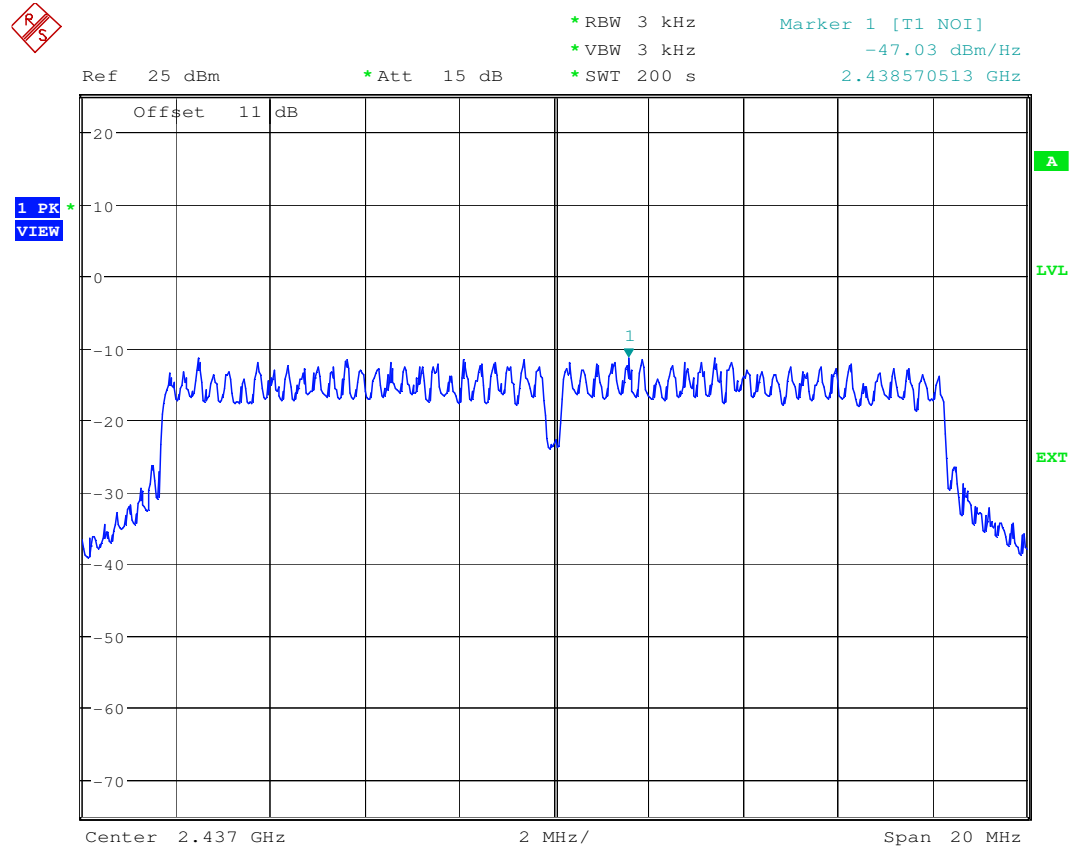


Plot 4: (result calculated by the spectrum analyzer FSU50 from Rohde & Schwarz)



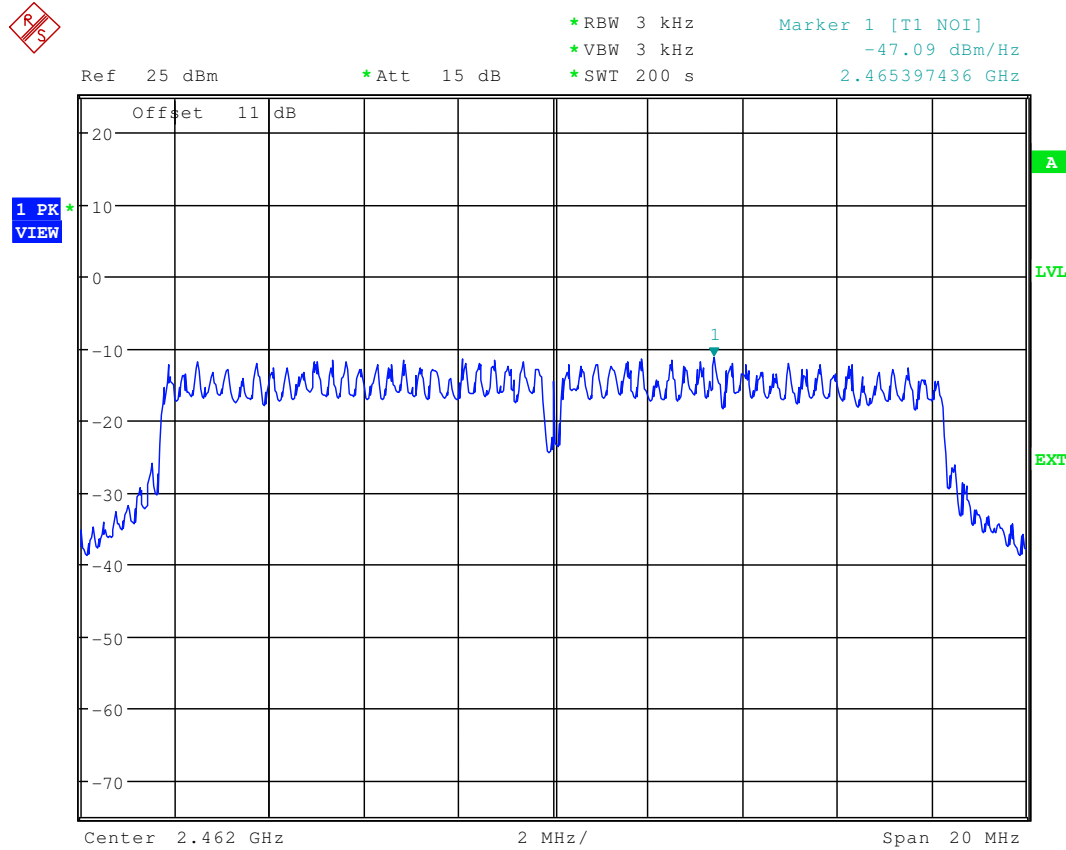
Date: 12.DEC.2006 13:51:54

Plot 5: (result calculated by the spectrum analyzer FSU50 from Rohde & Schwarz)



Date: 12.DEC.2006 13:36:03

Plot 6: (result calculated by the spectrum analyzer FSU50 from Rohde & Schwarz)



Results:

- Plot 1: Power density : -42.7 dBm/Hz = - 7.9 dBm / 3 KHz
- Plot 2: Power density : -42.6 dBm/Hz = - 7.8 dBm / 3 KHz
- Plot 3: Power density : -42.9 dBm/Hz = - 8.1 dBm / 3 KHz
- Plot 1: Power density : -47.2 dBm/Hz = - 12.7 dBm / 3 KHz
- Plot 2: Power density : -47.0 dBm/Hz = - 12.2 dBm / 3 KHz
- Plot 3: Power density : -47.1 dBm/Hz = - 12.3 dBm / 3 KHz

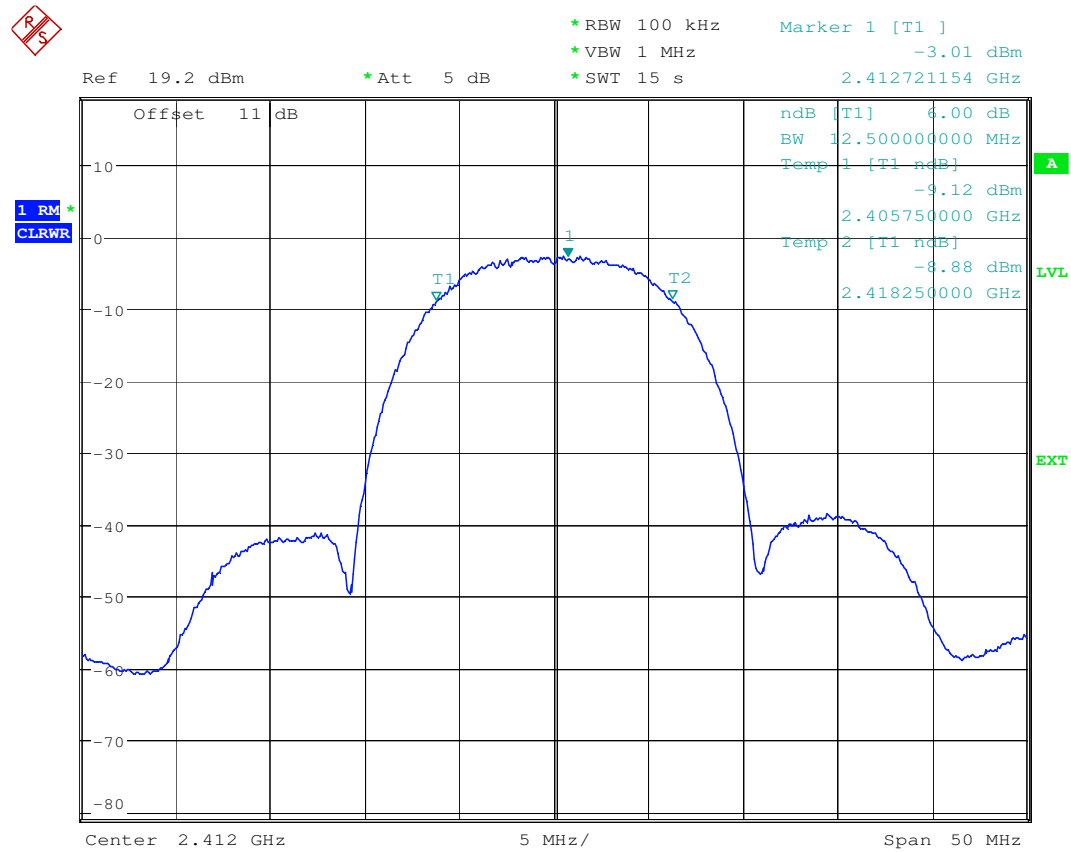
Correction factor from dBm/Hz to dBm/3KHz is +34,8 dB

Limits :

Under normal test conditions only	For digitally modulated systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 KHz band during any time interval of continuous transmission
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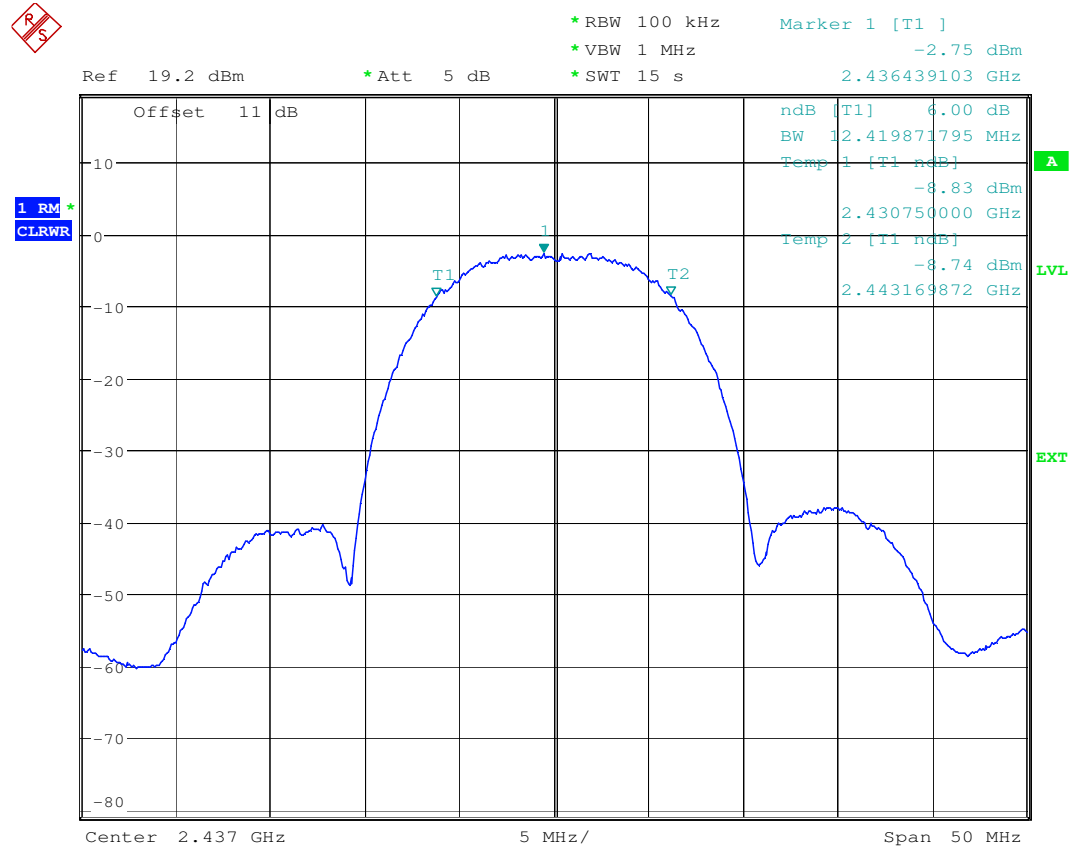
3.6 Spectrum Bandwidth of a DSSS / OFDM System / 6 dB Bandwidth §15.247(a)(2)

Plot 1 :



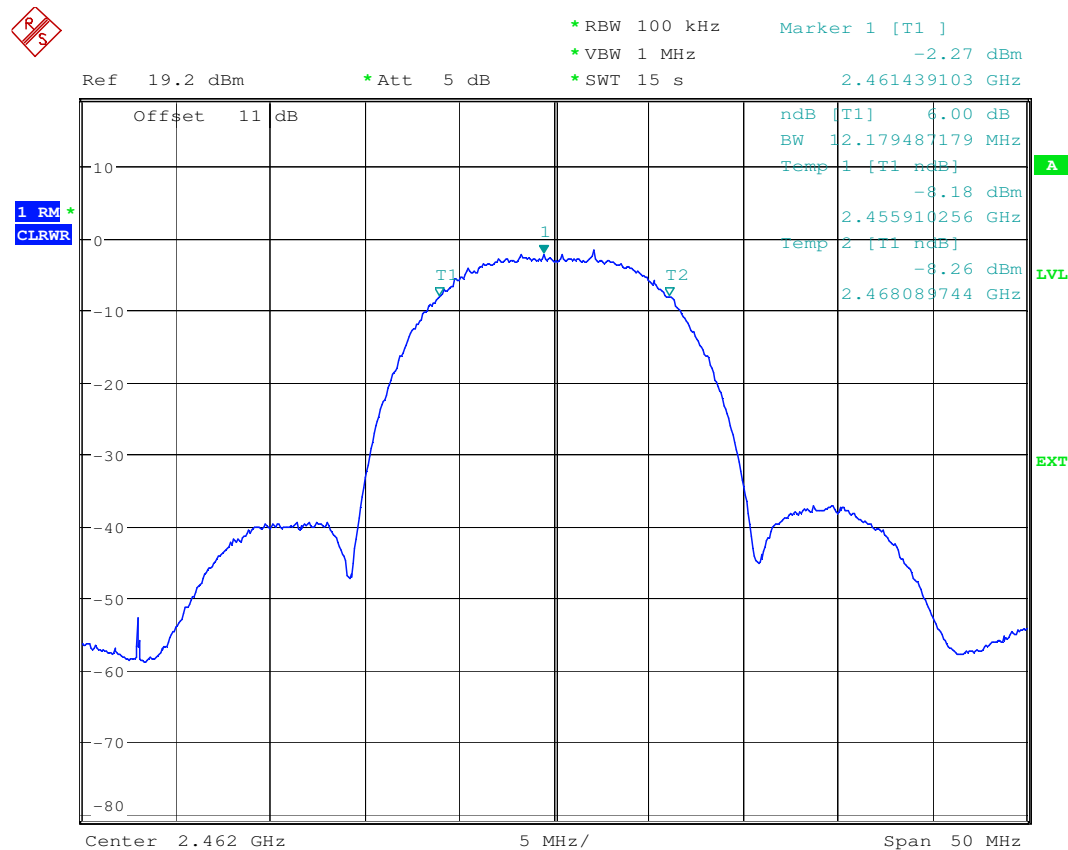
Date: 12.DEC.2006 12:30:12

Plot 2:



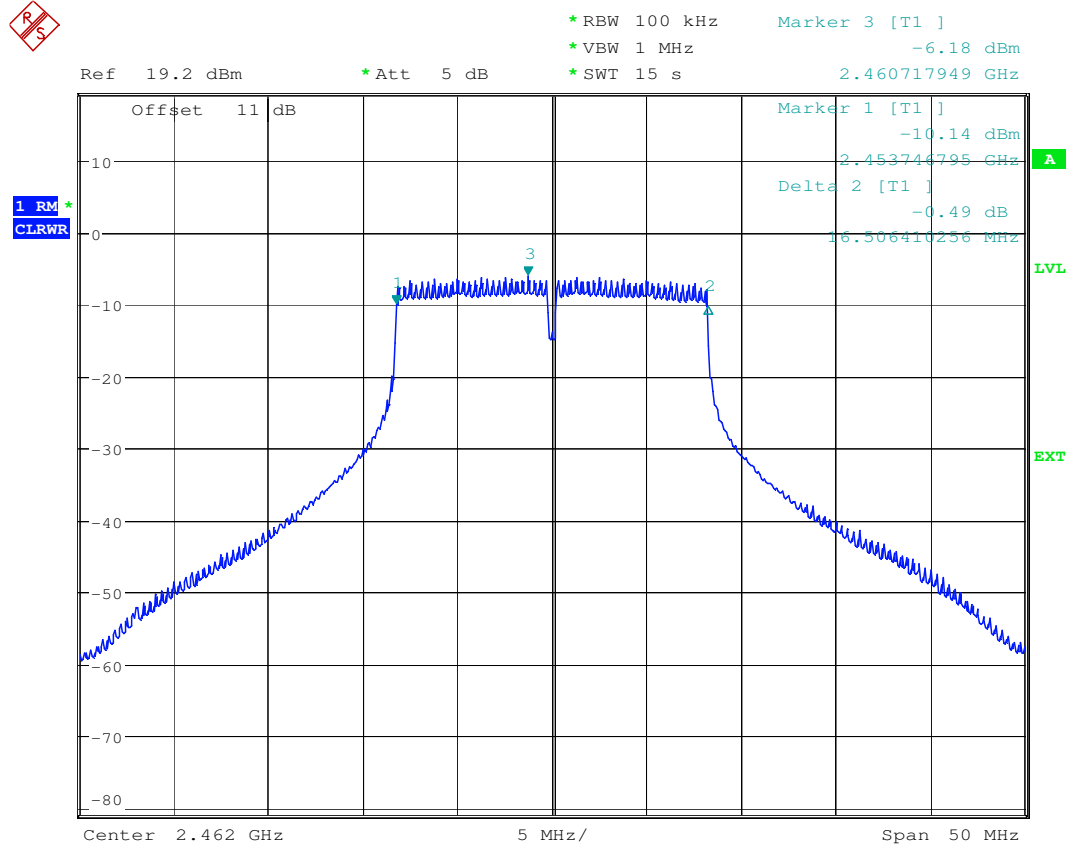
Date: 12.DEC.2006 12:31:13

Plot 3:



Date: 12.DEC.2006 12:32:02

Plot 6:



Date: 12.DEC.2006 12:38:26

Results:

Test conditions		6 dB BANDWIDTH [MHz]		
Frequency [MHz]		2412	2437	2462
T _{nom}	DSSS V _{nom}	12.4199	12.4199	12.5000
T _{nom}	OFDM V _{nom}	16.5064	16.5064	16.5064
Measurement uncertainty		±1kHz		

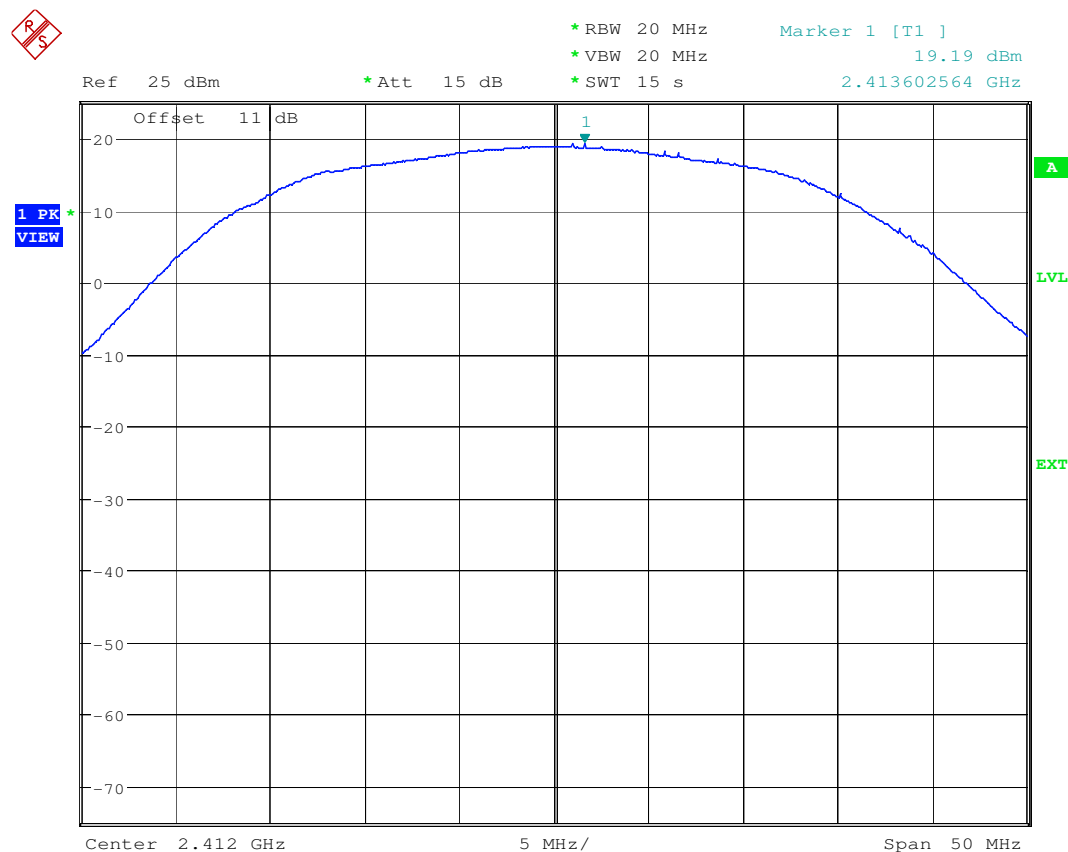
RBW: 100 kHz / VBW 1MHz

Limits :

Under normal test conditions only	> 500 KHz
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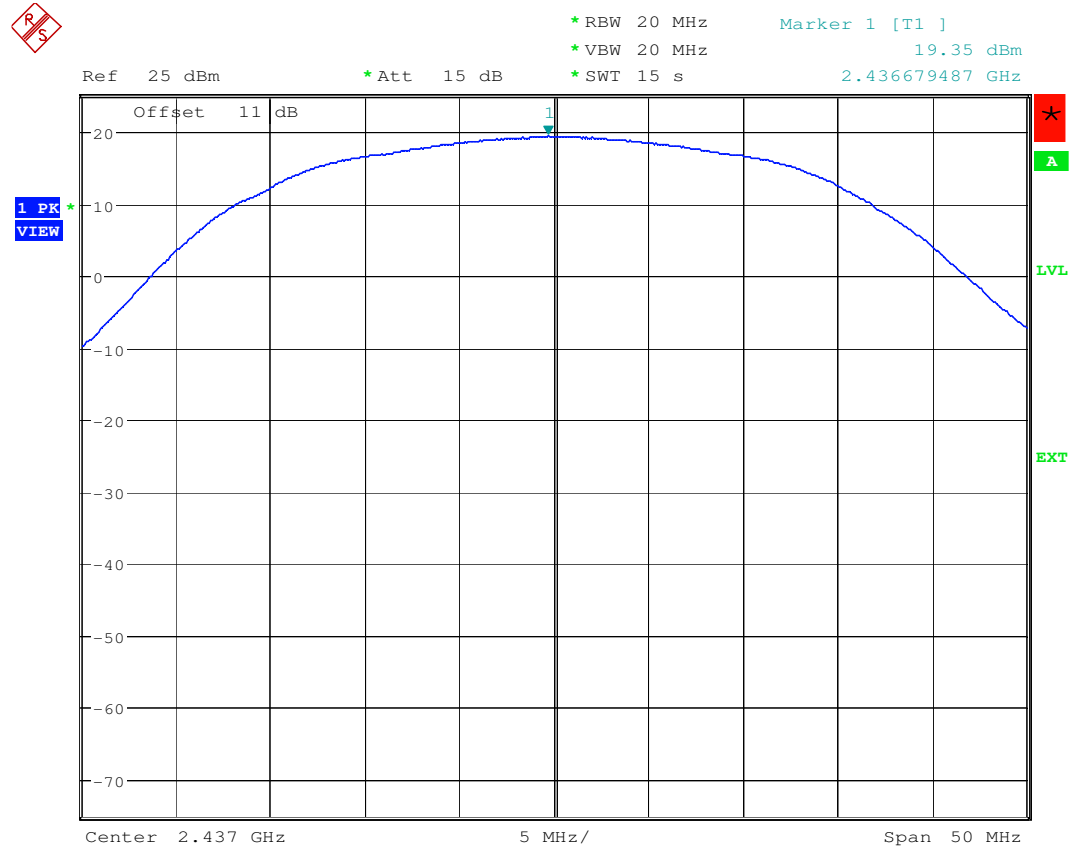
3.7 Maximum output power (conducted) §15.247 (b)(3)

Plot 1:



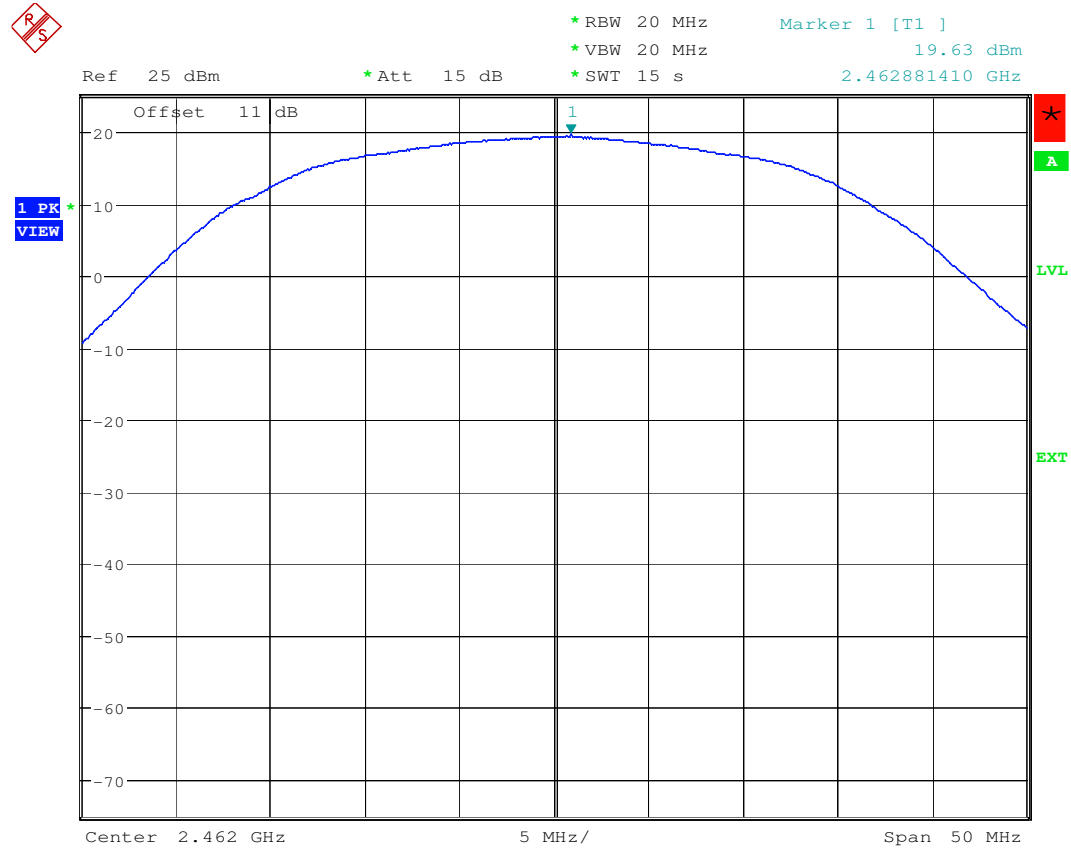
Date: 12.DEC.2006 13:10:55

Plot 2:



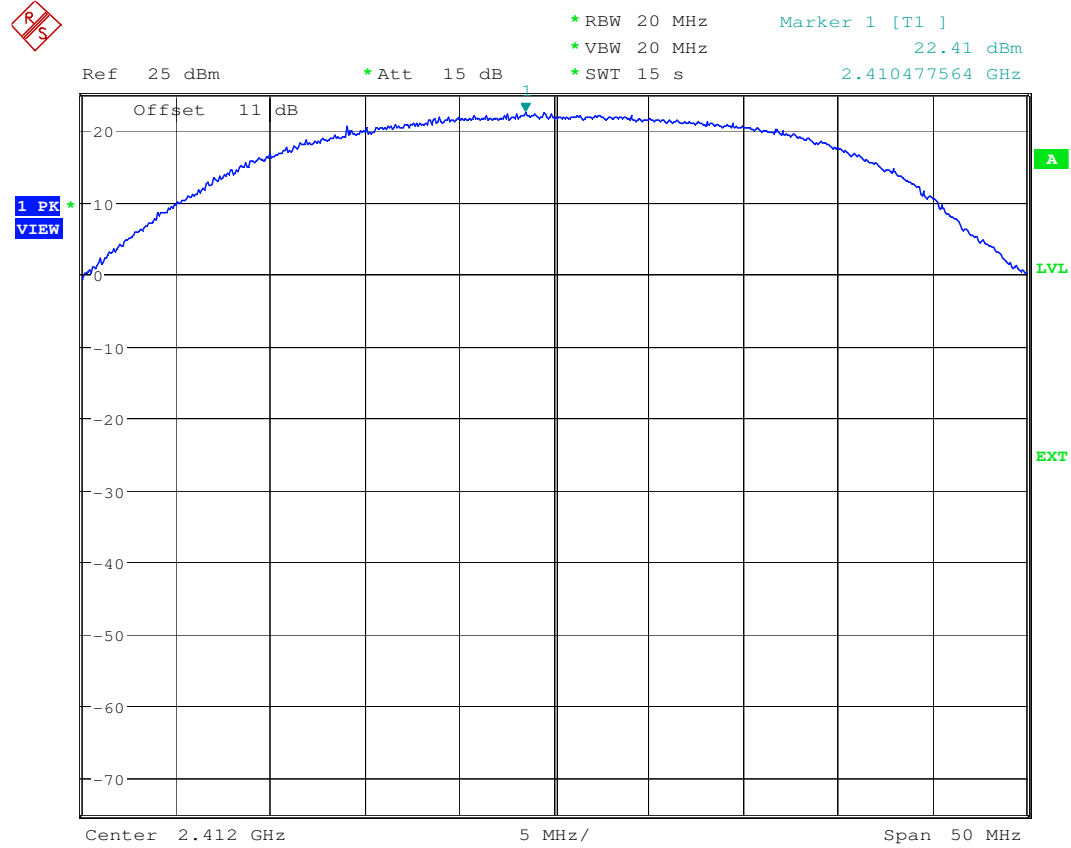
Date: 12.DEC.2006 13:12:03

Plot 3:



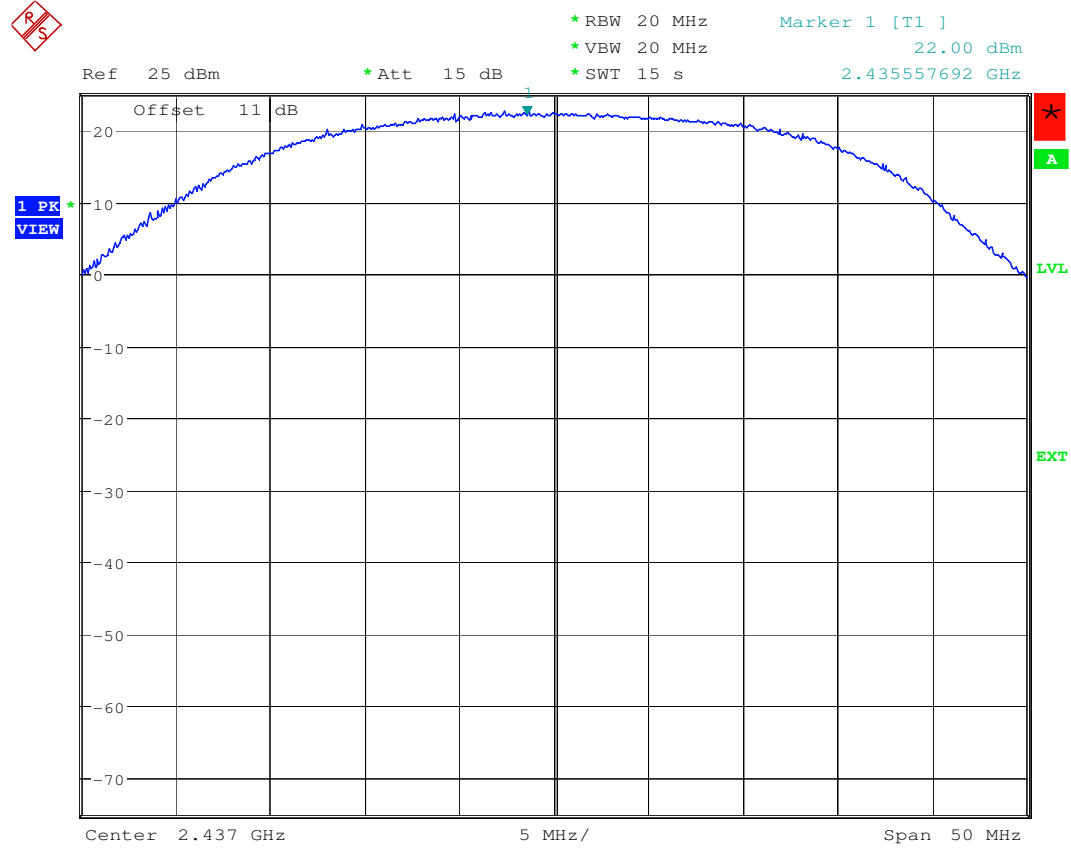
Date: 12.DEC.2006 13:14:51

Plot4:



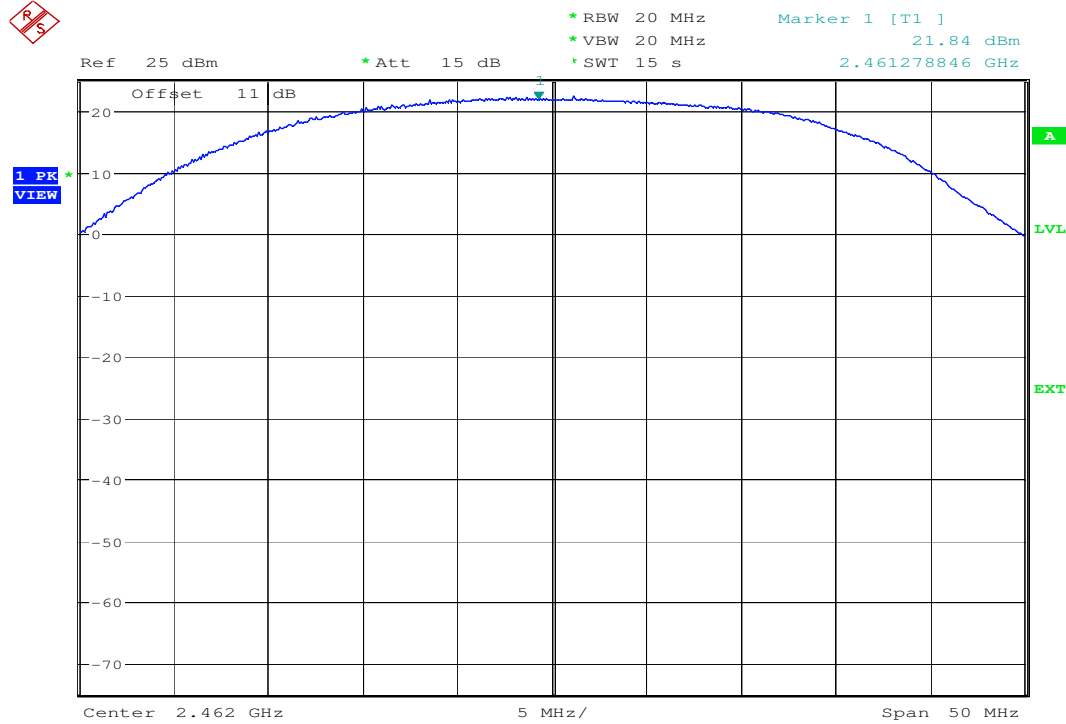
Date: 12.DEC.2006 13:09:56

Plot 5:



Date: 12.DEC.2006 13:09:04

Plot 6:



Date: 12.DEC.2006 13:08:00

Results:

Test conditions		Max. peak output power [dBm]					
		2412		2437		2462	
Frequency [MHz]							
T _{nom}	DSSS V _{nom}	PK	19.2	19.2	19.6		
T _{nom}	OFDM V _{nom}	PK	22.4	22.0	21.3		
Measurement uncertainty		±3dB					

RBW / VBW : 20 MHz

Limits:

Under normal test conditions only, for frequency range 2400-2483.5 MHz	Max. 1.0 Watt / 30 dBm
--	------------------------

MPE calculation

These equations are generally accurate in the far field of an antenna but will over predict power density in the near field, where they could be used for making a “worst case” prediction.

$$S = PG/4\pi R^2$$

where S = power density (in appropriate units, e.g. mW/cm²)
P = power input to the antenna (in appropriate units e.g. mW)
G = power gain of the antenna in the direction of interest relative to the isotropic radiator
R = distance to the center of radiation of the antenna (appropriate units e.g. cm)

Or

$$S = EIRP/4\pi R^2$$

where EIRP = equivalent isotropically radiated power

Calculation:

(Calculated for max. EIRP)

EIRP: 15.8 dBm (38 mW)

calculated at distance of 20 cm:

$$\text{power density} = 38 / 4\pi 20^2 = 0.0076 \text{ mW/ cm}^2$$

Limit:

1mW/ cm² is the reference level for general public exposure according to the OET Bulletin 65,
Edition 97-01 Table 1.

3.8 Max. peak output power (radiated) §15.247 (b)(3)

Results:

Test conditions		Max. peak output power EIRP [dBm]		
Frequency [MHz]		2412	2437	2462
T _{nom}	DSSS V _{nom}	14.6	15.3	15.8
T _{nom}	OFDM V _{nom}	12.0	13.1	13.3
Measurement uncertainty		±3dB		

RBW / VBW : 1 MHz

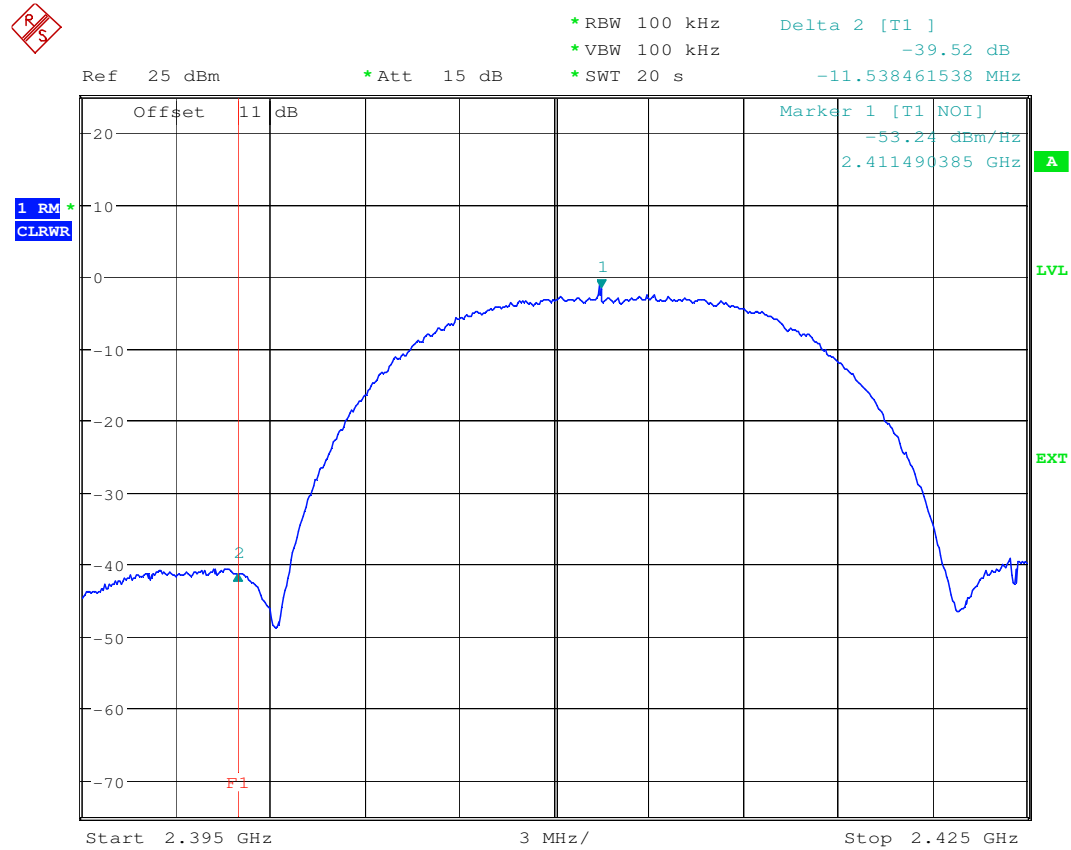
Measured at a distance of 3m

Limits:

Under normal test conditions only, for frequency range 2400-2483.5 MHz	Max. 1.0 Watt
--	---------------

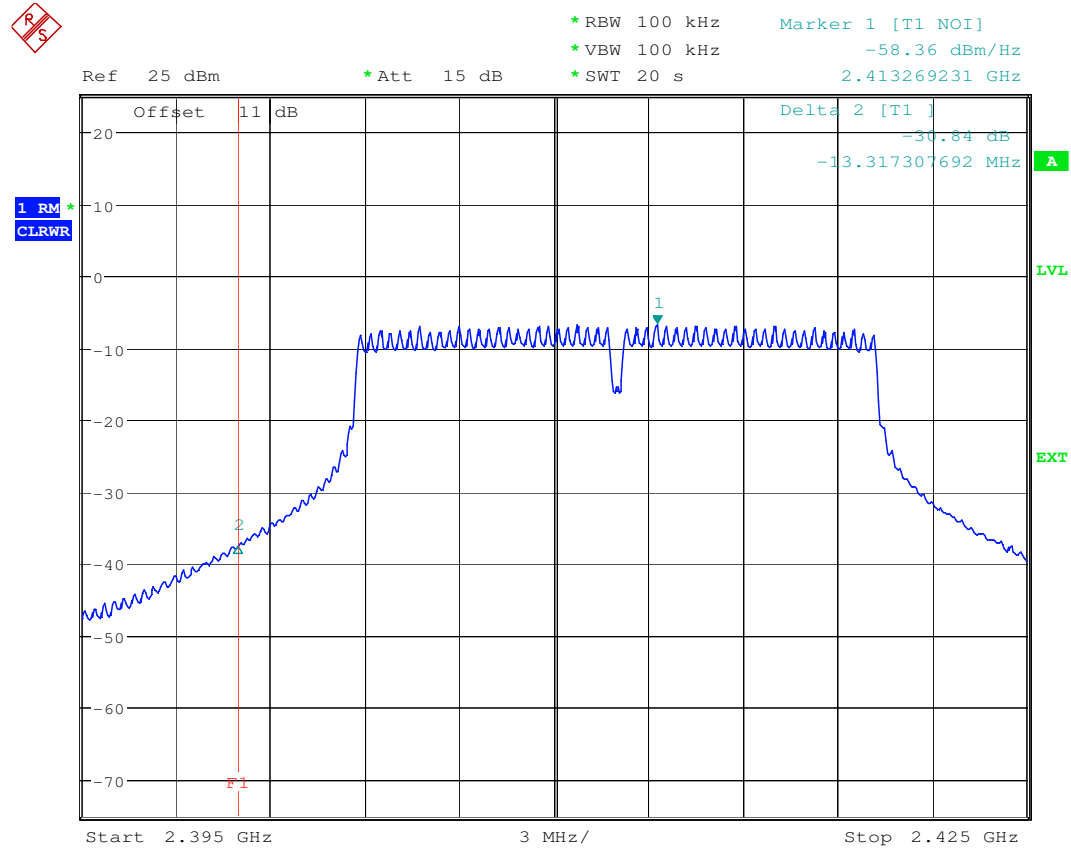
3.9 Band-edge compliance of conducted emissions §15.247 (d)

Plot 1, lowest channel DSSS



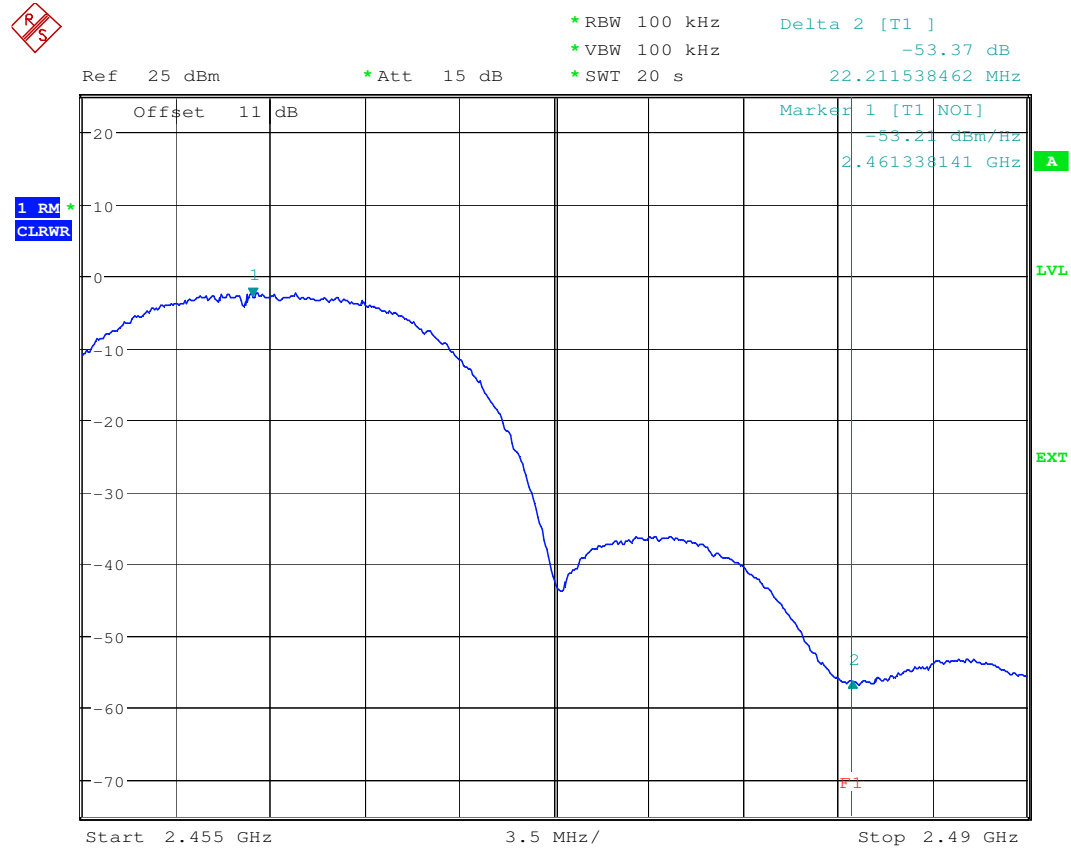
Date: 12.DEC.2006 14:19:28

Plot 1, lowest channel OFDM



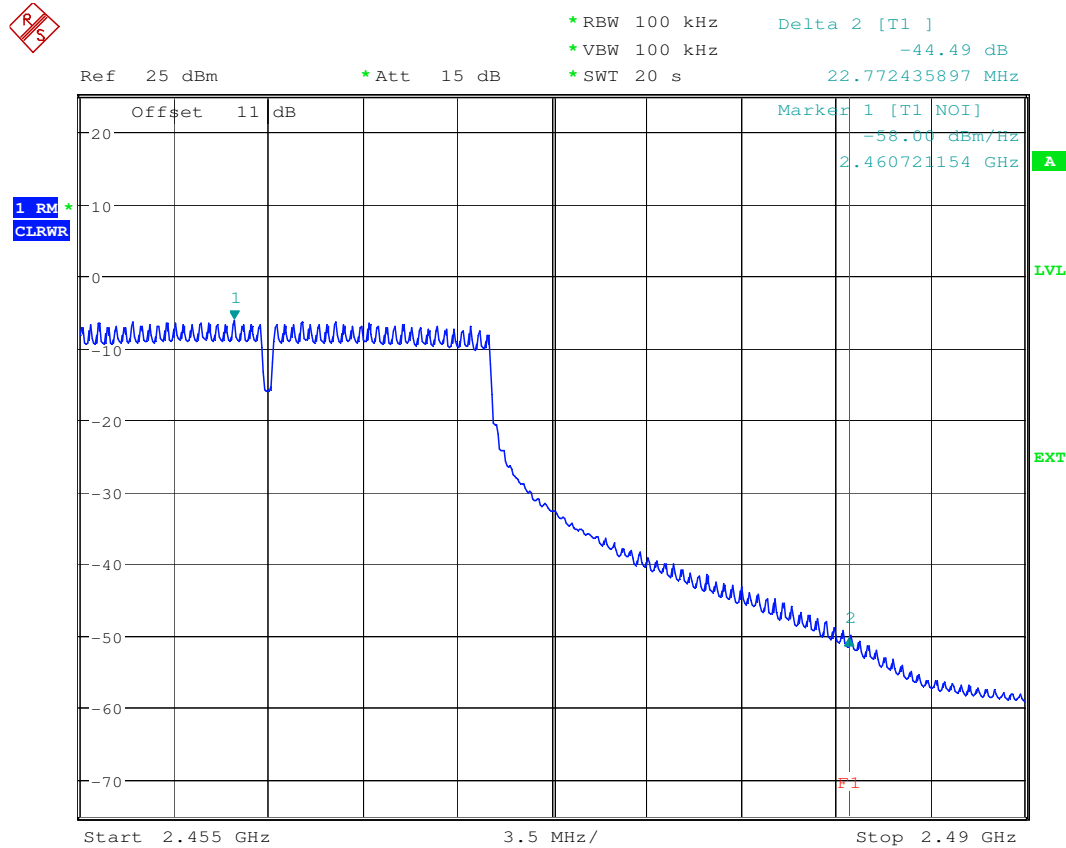
Date: 12.DEC.2006 14:20:35

Plot 2, highest channel DSSS



Date: 12.DEC.2006 14:17:32

Plot 2, highest channel OFDM



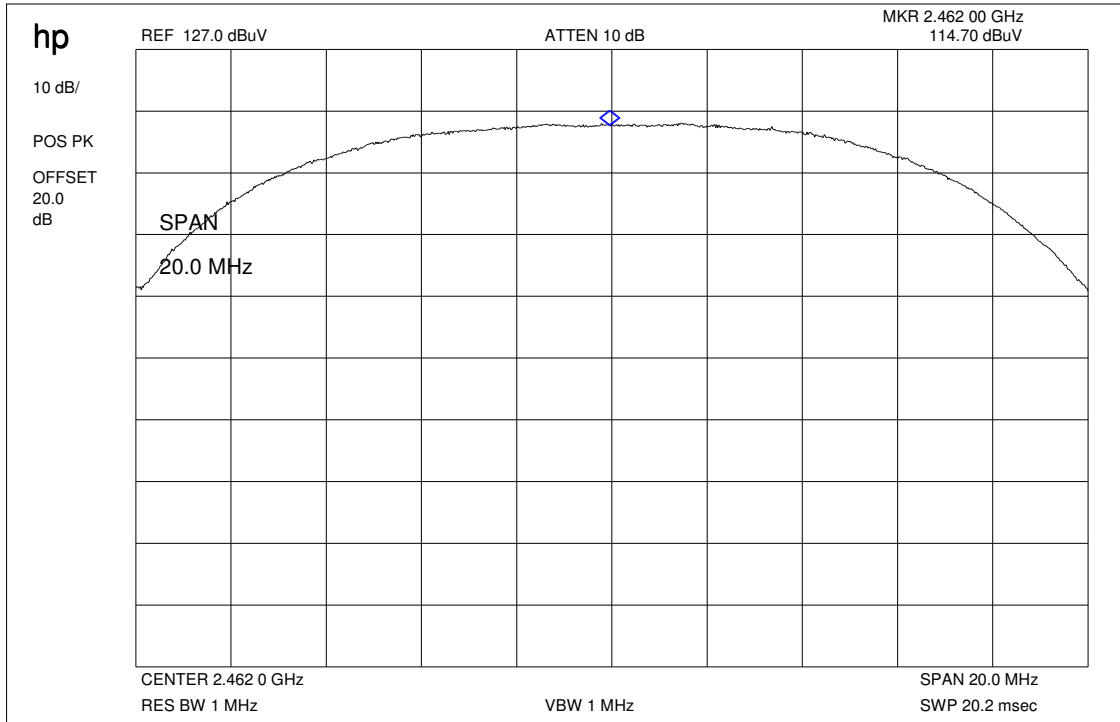
Date: 12.DEC.2006 14:21:49

Limits:

<p>Under normal test conditions only</p>	<p>In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 5.205(c)).</p>
--	---

3.10 Band-edge compliance of radiated emissions §15.205

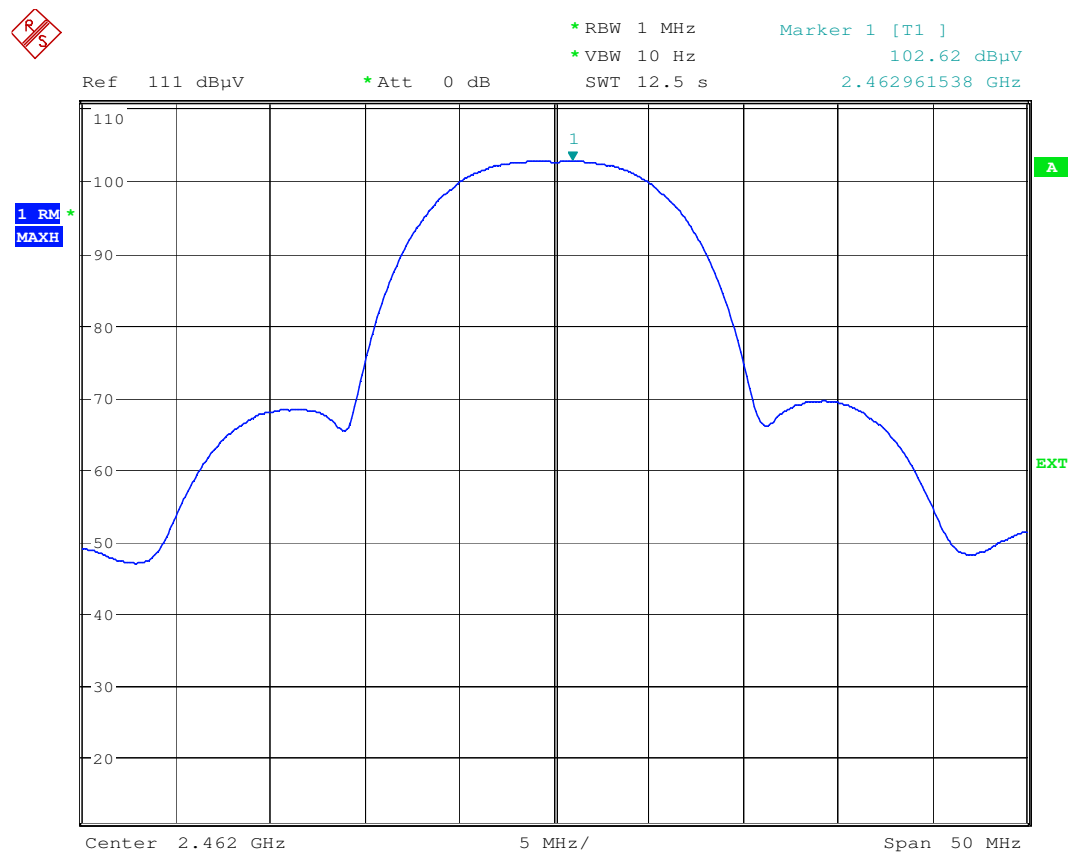
Plot 1 : Max field strength in 3m distance (single frequency) peak DSSS



Result:

Frequency	Meter reading	Cable loss	Antenna factor	Results
2462 MHz	99.1	22.8 dB	-7.2	114.7

Plot 2 : Max field strength in 3m distance (single frequency) average DSSS

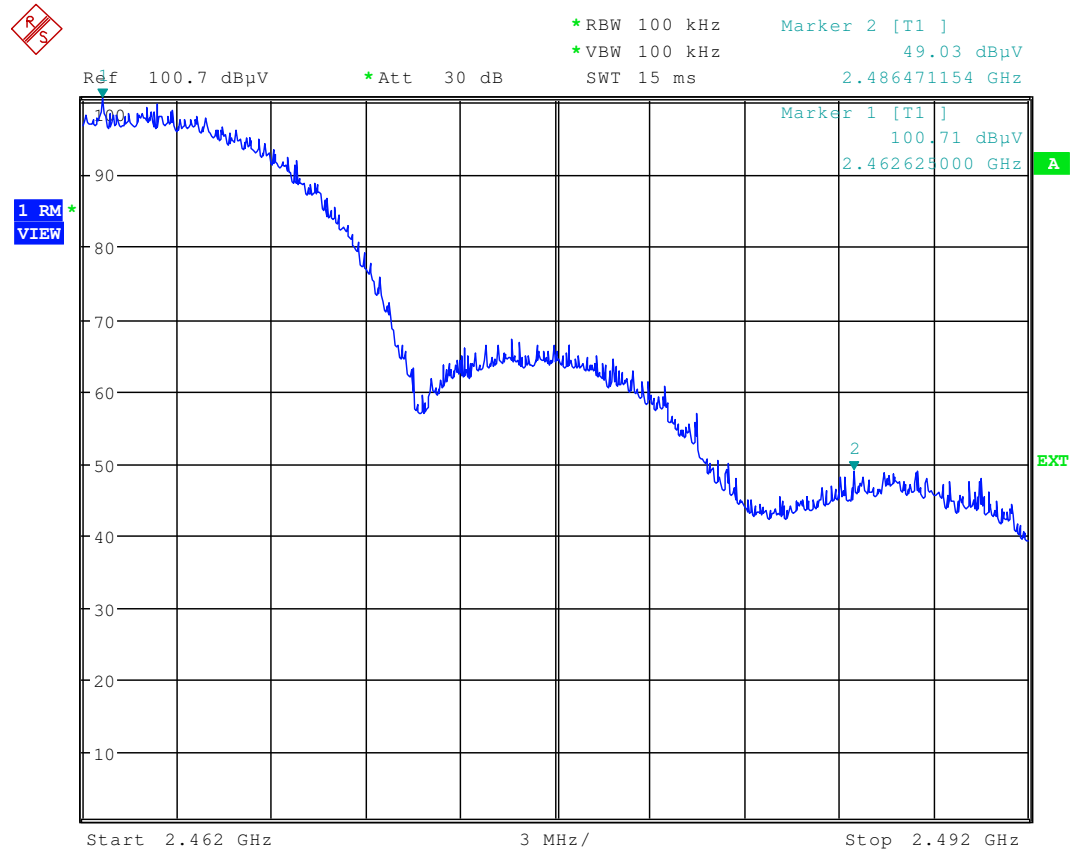


Date: 12.DEC.2006 14:43:08

Result:

Frequency	Meter reading	Cable loss	Antenna factor	Results
2462 MHz	87.0	22.8 dB	-7.2	102.6

Plot 3: Marker-Delta Method RBW/VBW = 1% of span DSSS

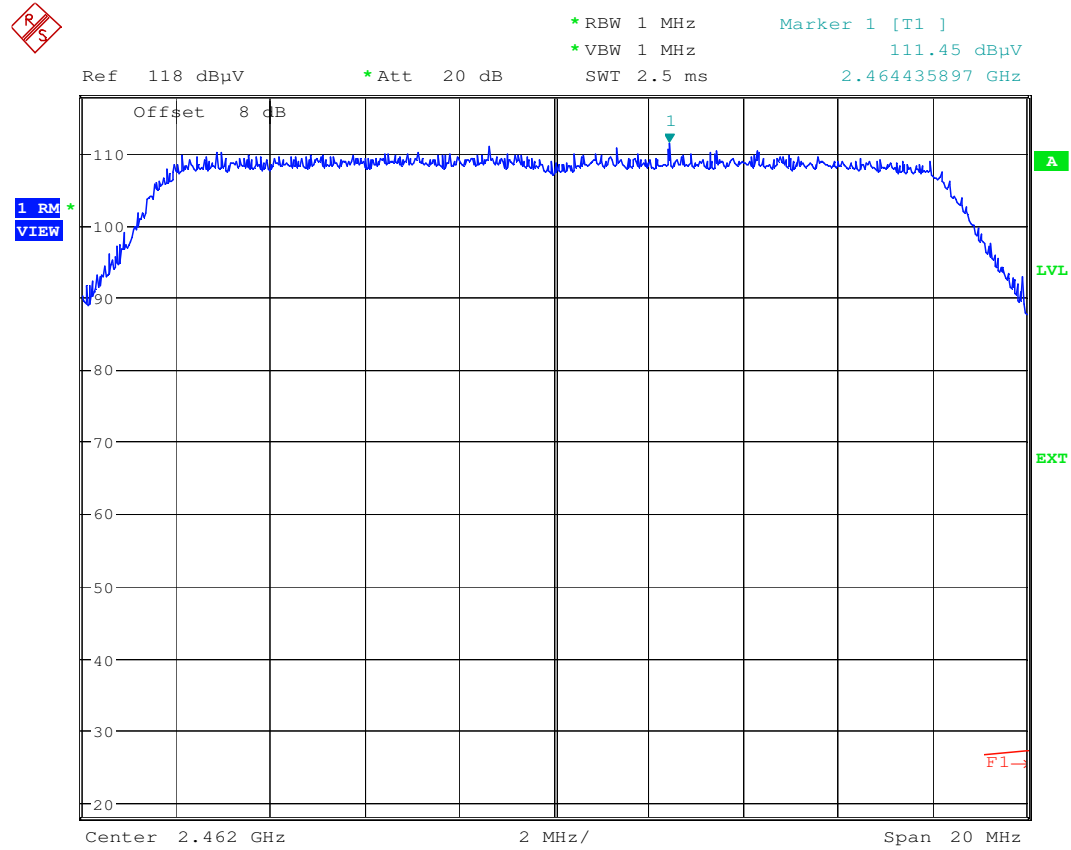


Result:

Marker-Delta-Value : 51.7 dB

This measurement was made to show that the behavior of the system is conform to FCC 15.205 (restricted bands)

Plot 4 : Max field strength in 3m distance (single frequency) peak OFDM

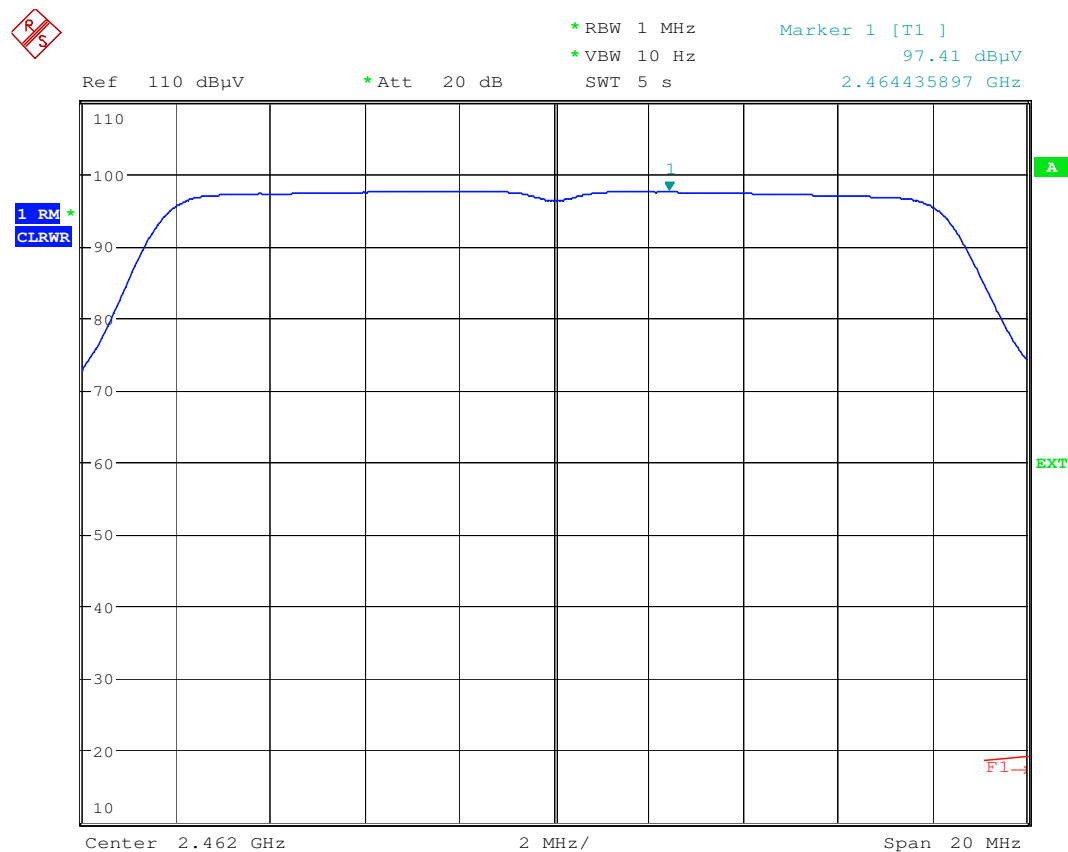


Date: 12.DEC.2006 14:54:27

Result:

Frequency	Meter reading	Cable loss	Antenna factor	Results
2462 MHz	95.9	22.8 dB	-7.2	111.5

Plot 5 : Max field strength in 3m distance (single frequency) average OFDM

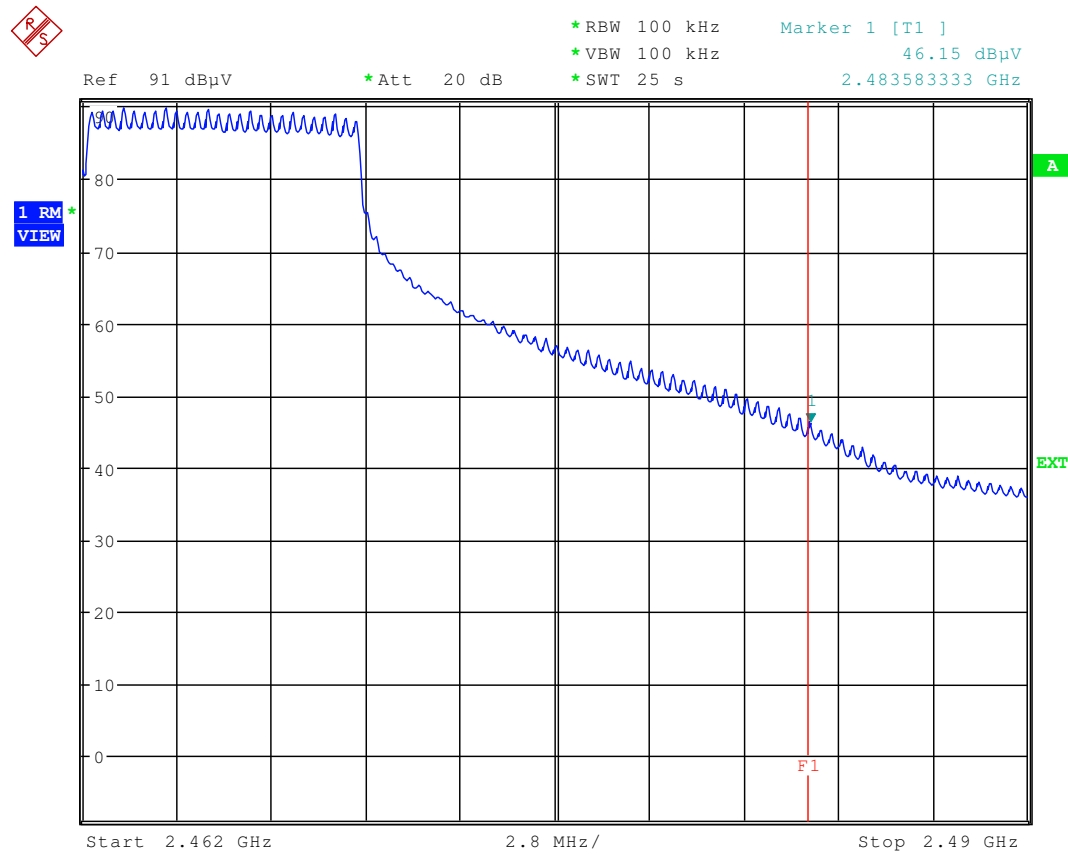


Date: 12.DEC.2006 14:55:39

Result:

Frequency	Meter reading	Cable loss	Antenna factor	Results
2462 MHz	81.8	22.8 dB	-7.2	97.4

Plot 3: Marker-Delta Method RBW/VBW = 1% of span OFDM



Result:

Marker-Delta-Value : 44.8 dB

This measurement was made to show that the behavior of the system is conform to FCC 15.205 (restricted bands)

Results & Limits:

Radiated field strength

The field strength was measured with an EMI measuring receiver and 1 MHz RBW / VBW for peak and with 1MHz RBW / 10Hz VBW for average at a distance of 3m.

DSSS

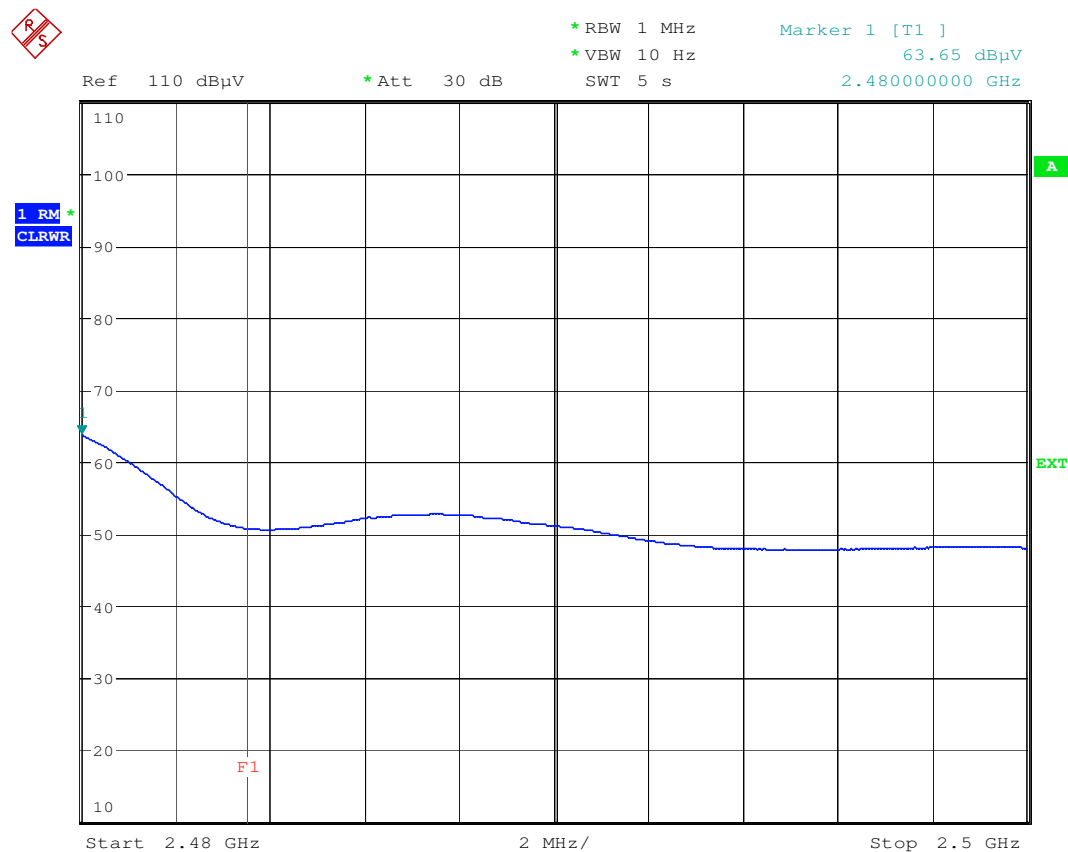
high channel	setup	measured value (3m)	correction factor (3m)	calculated value (3m)
Max. peak value	1 MHz RBW 1 MHz VBW	99.1 dB μ V/m	+15,6 dB	114.7dB μ V/m
Max. average value	1 MHz RBW 10 Hz VBW	87.0 dB μ V/m	+15.6 dB	102.6 dB μ V/m
Delta value	Peak 100 kHz RBW/VBW	51.7 dB		
Value at band edge	limit 54 dB μ V/m			50.9 dB μ V/m
Statement:				Complies

OFDM

high channel	setup	measured value (3m)	correction factor (3m)	calculated value (3m)
Max. peak value	1 MHz RBW 1 MHz VBW	95.9 dB μ V/m	+15,6 dB	111.5 dB μ V/m
Max. average value	1 MHz RBW 10 Hz VBW	81.8 dB μ V/m	+15.6 dB	97.4 dB μ V/m
Delta value	Peak 100 kHz RBW/VBW	44.8 dB		
Value at band edge	limit 54 dB μ V/m			52.6 dB μ V/m
Statement:				Complies

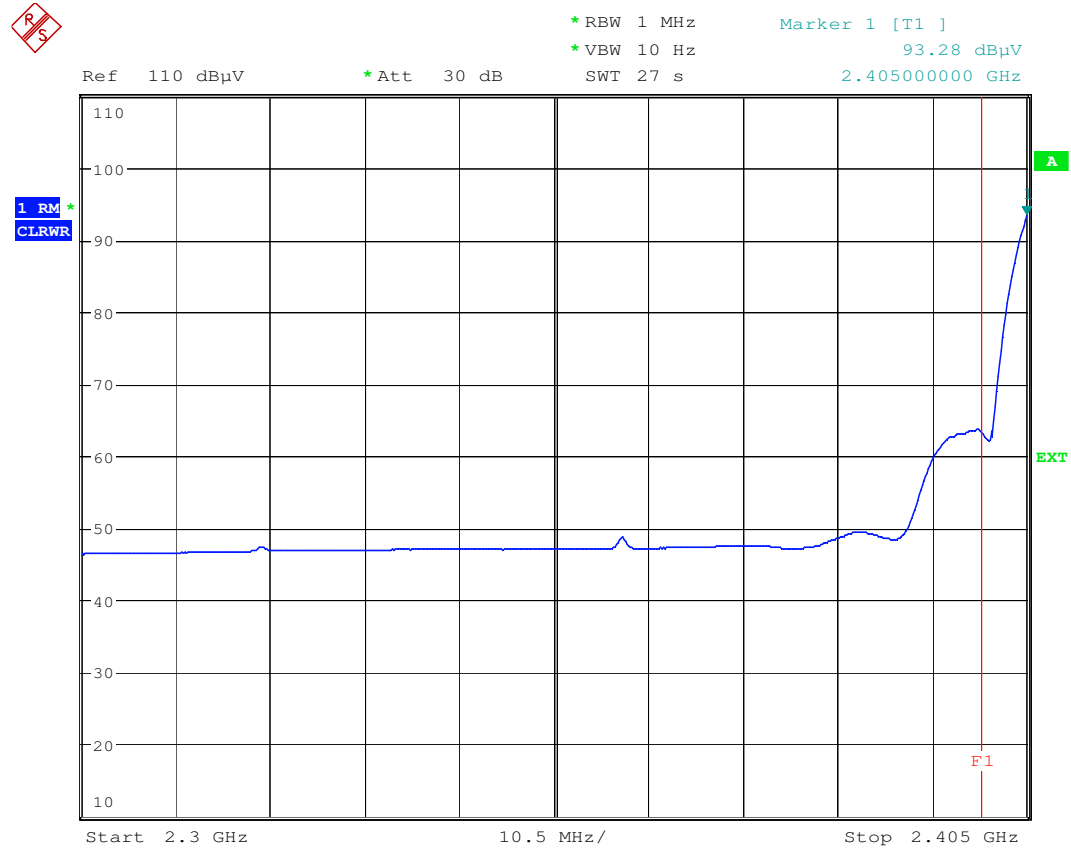
Band edge compliance in the next restricted bands.

upper edge DSSS



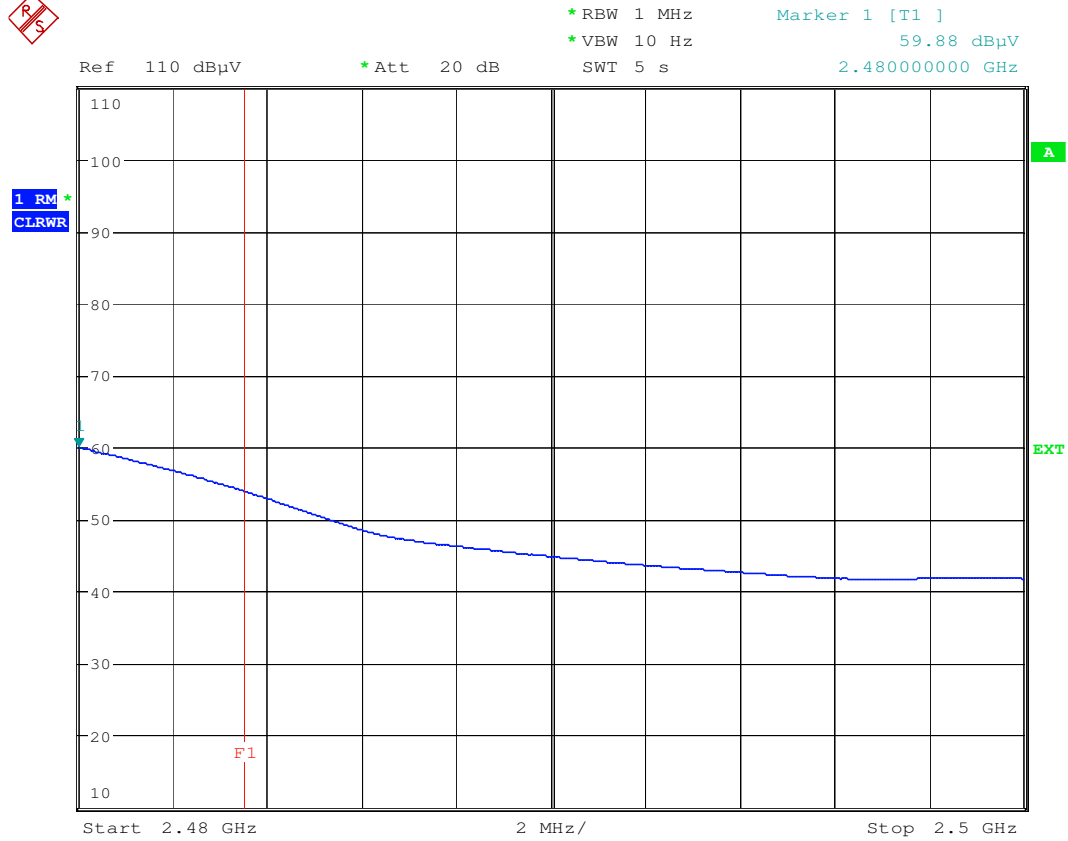
Date: 12.DEC.2006 14:49:09

lower edge DSSS



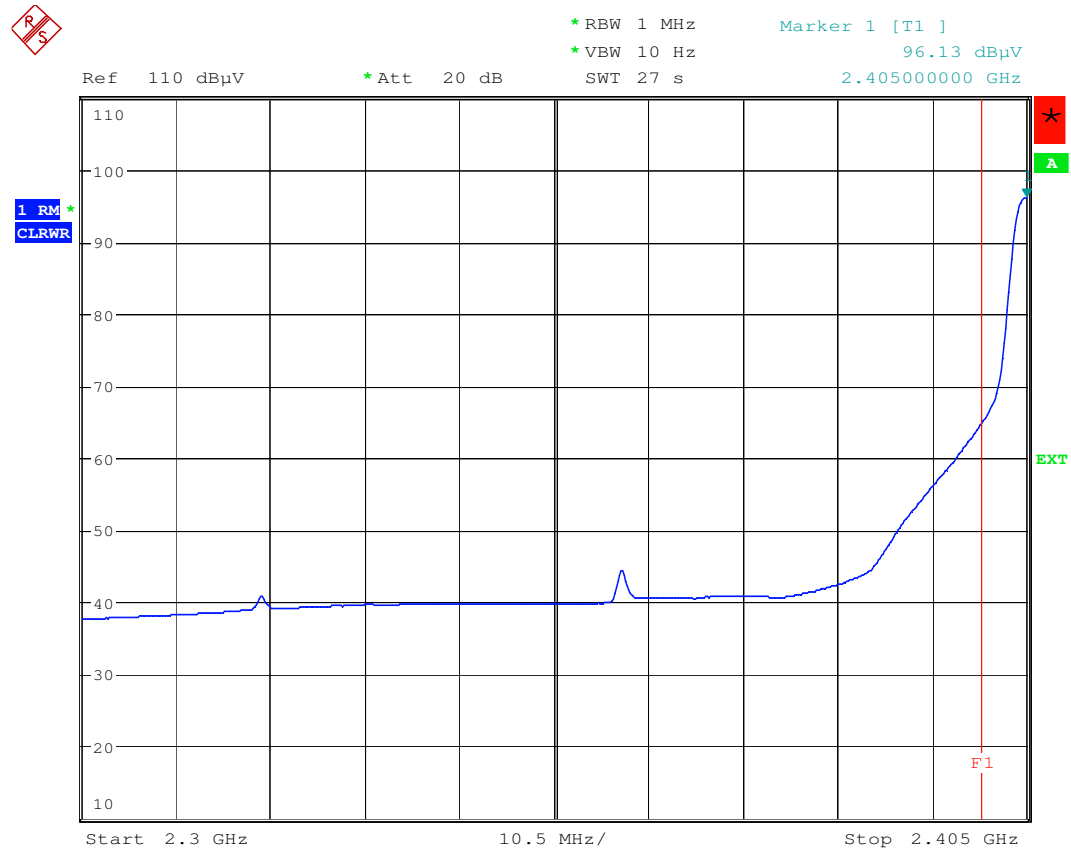
Date: 12.DEC.2006 14:50:25

higher edge OFDM



Date: 12.DEC.2006 14:52:43

lower edge OFDM

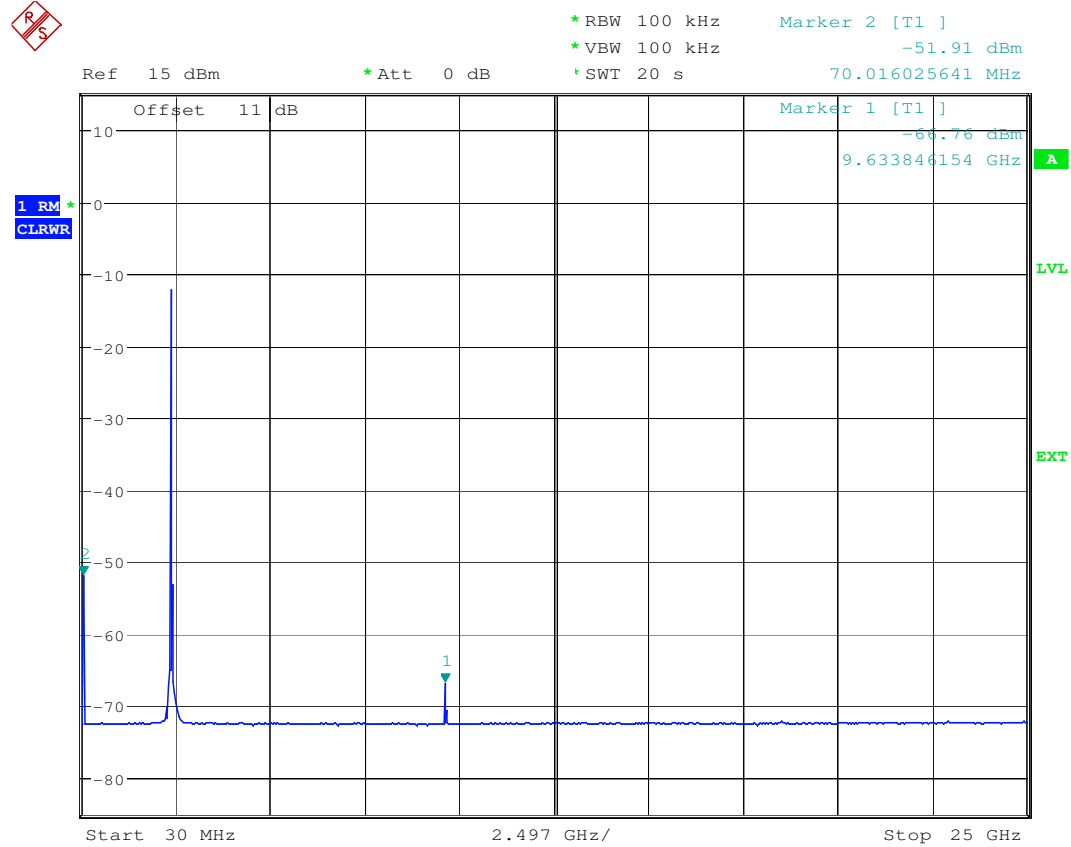


Date: 12.DEC.2006 14:51:39

3.11 Spurious Emissions - conducted (Transmitter) §15.247 (c)

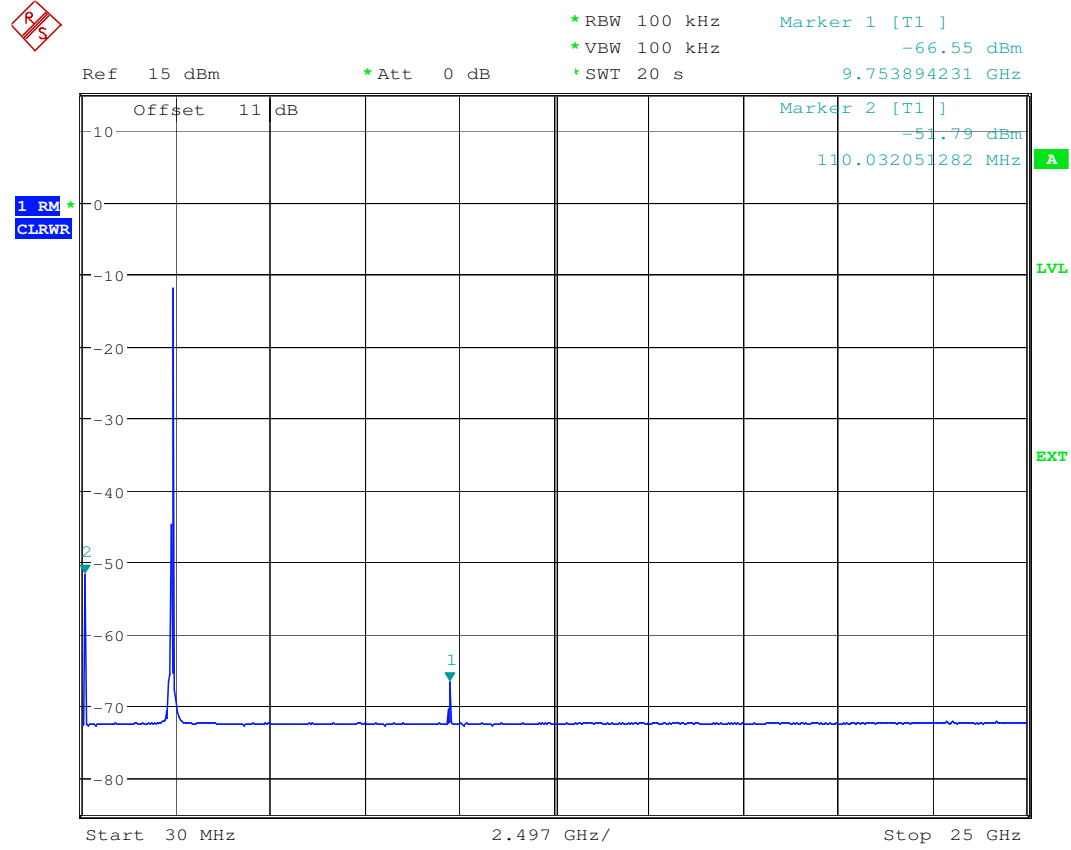
Valid for DSSS and OFDM, no differences

Plot1:



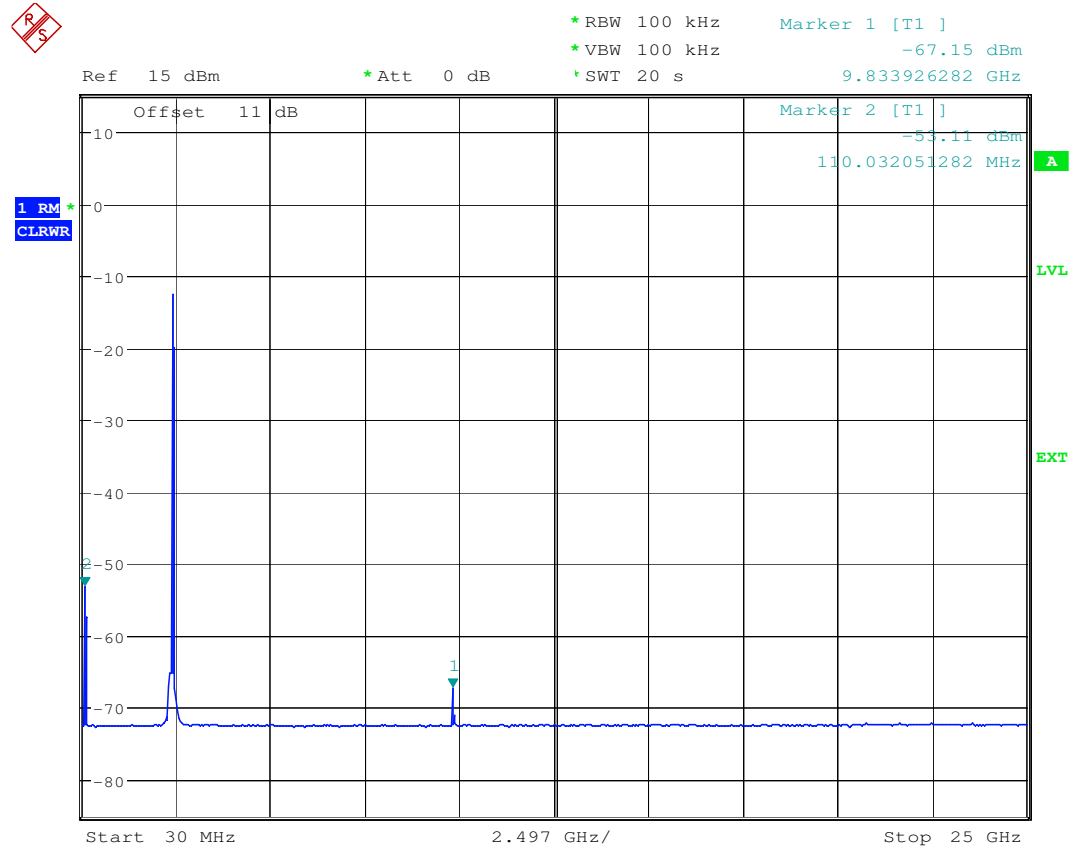
Date: 12.DEC.2006 14:32:39

Plot 2:



Date: 12.DEC.2006 14:31:10

Plot 3:



Date: 12.DEC.2006 14:34:07

Result & Limits:

Emission Limitations					
f [MHz]		amplitude of emission [dBm]	limit max. allowed emission power	actual attenuation below frequency of operation [dB]	results
2412			30 dBm	-	Operating frequency
70.0		-52.0	-20 dBc		pass
9648		-66.8			pass
2437			30 dBm		Operating frequency
95		-51.9	-20 dBc		pass
9748		-66.7			pass
2462			30 dBm		Operating frequency
110		-53.1	-20 dBc		pass
9848		-66.9			pass
Measurement uncertainty		± 3dB			

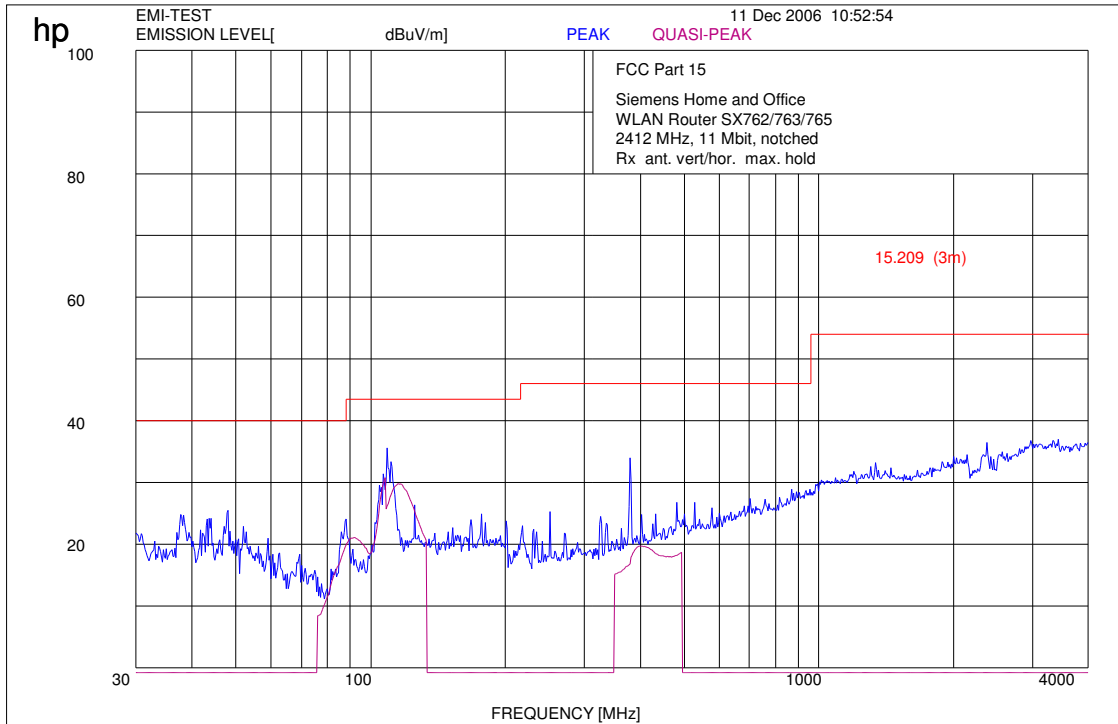
RBW : 100 kHz VBW: 100 kHz

Under normal test conditions only	In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
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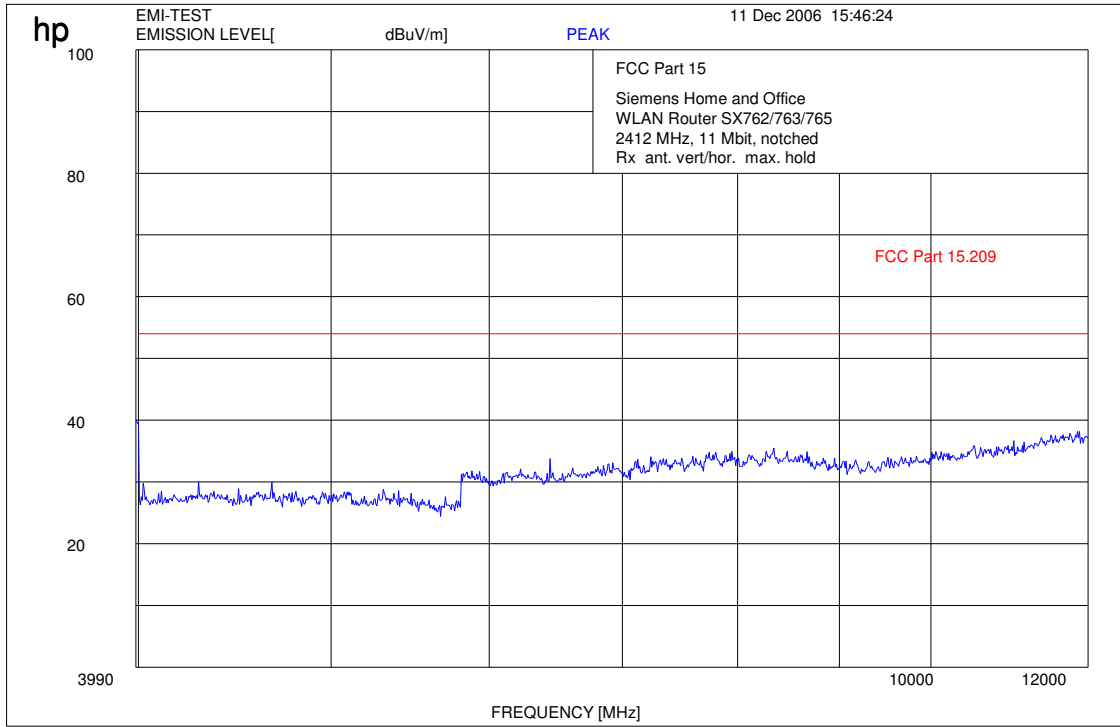
Note: For emissions that fall into restricted bands you find the radiated emissions later in the report.

3.12 Spurious Emissions - radiated (Transmitter) §15.209

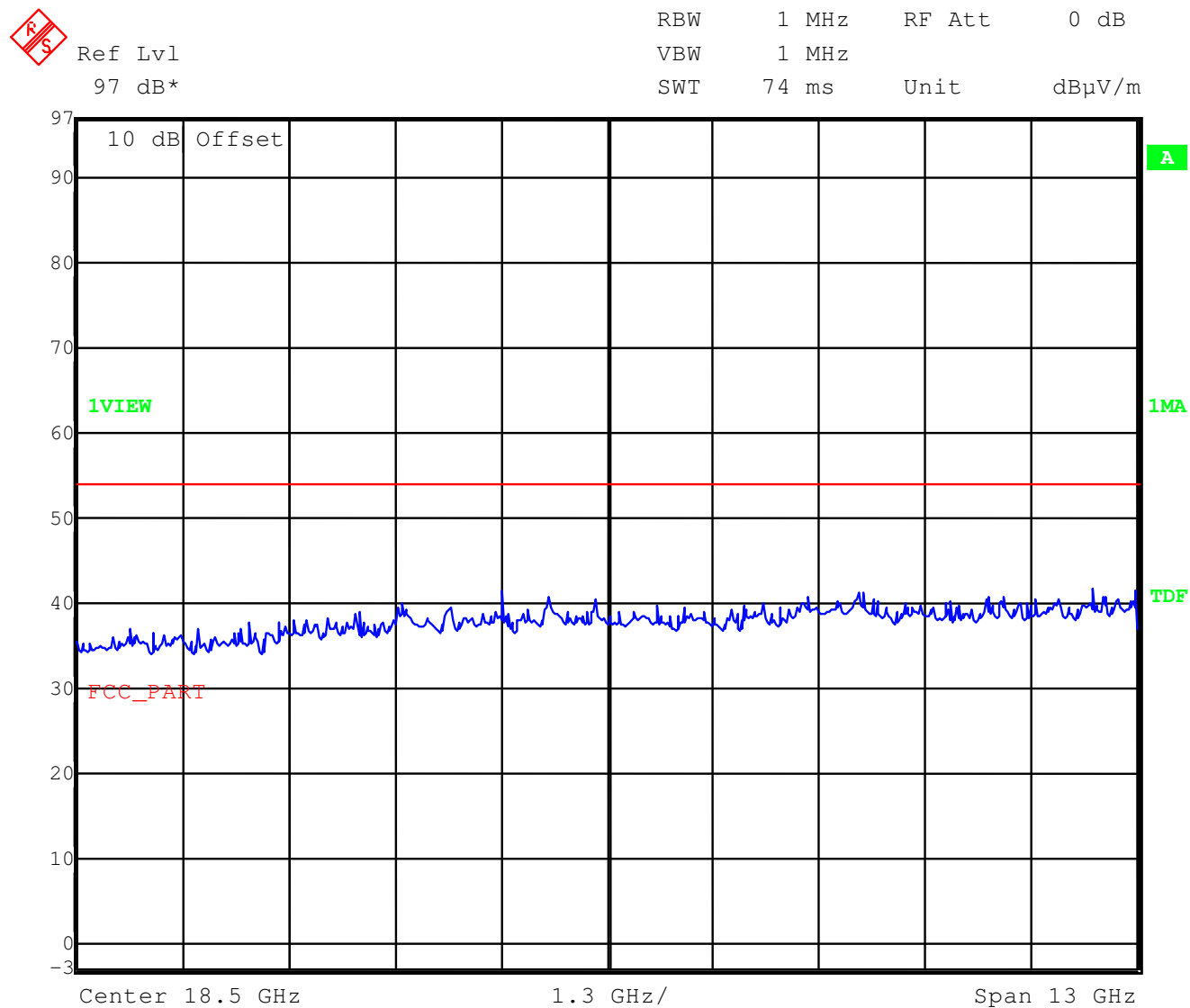
Plot 1: 0.03 - 4 GHz vertical / horizontal (lowest channel) (DSSS)



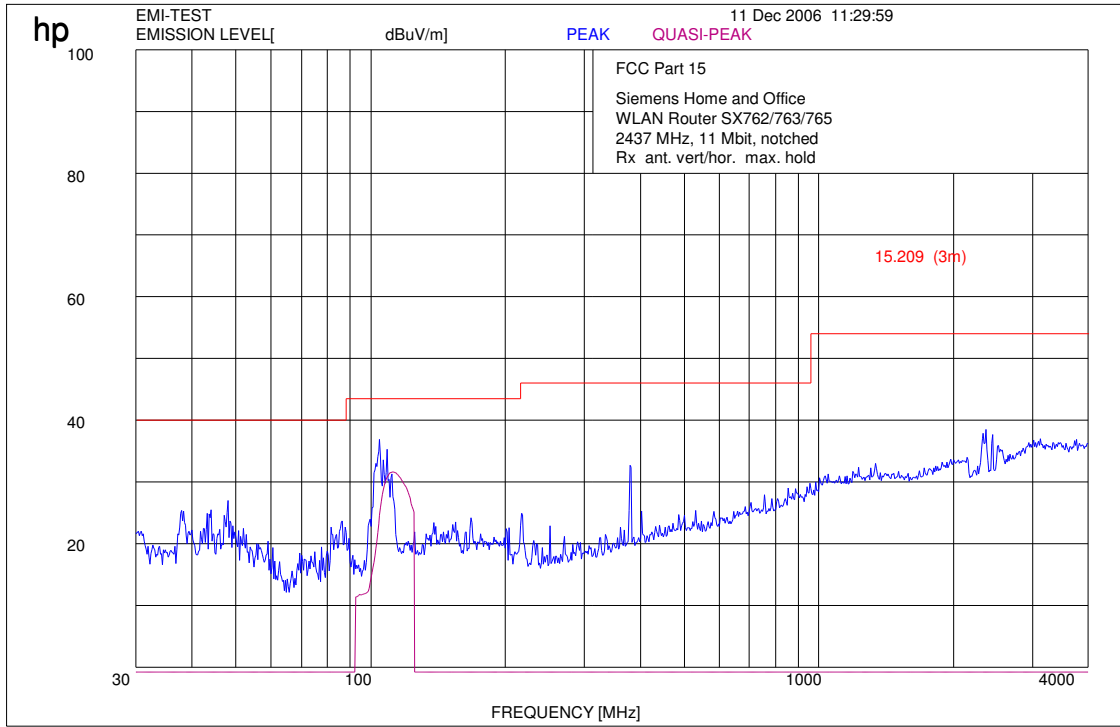
Plot 2: 4- 12 GHz (lowest channel) (DSSS)



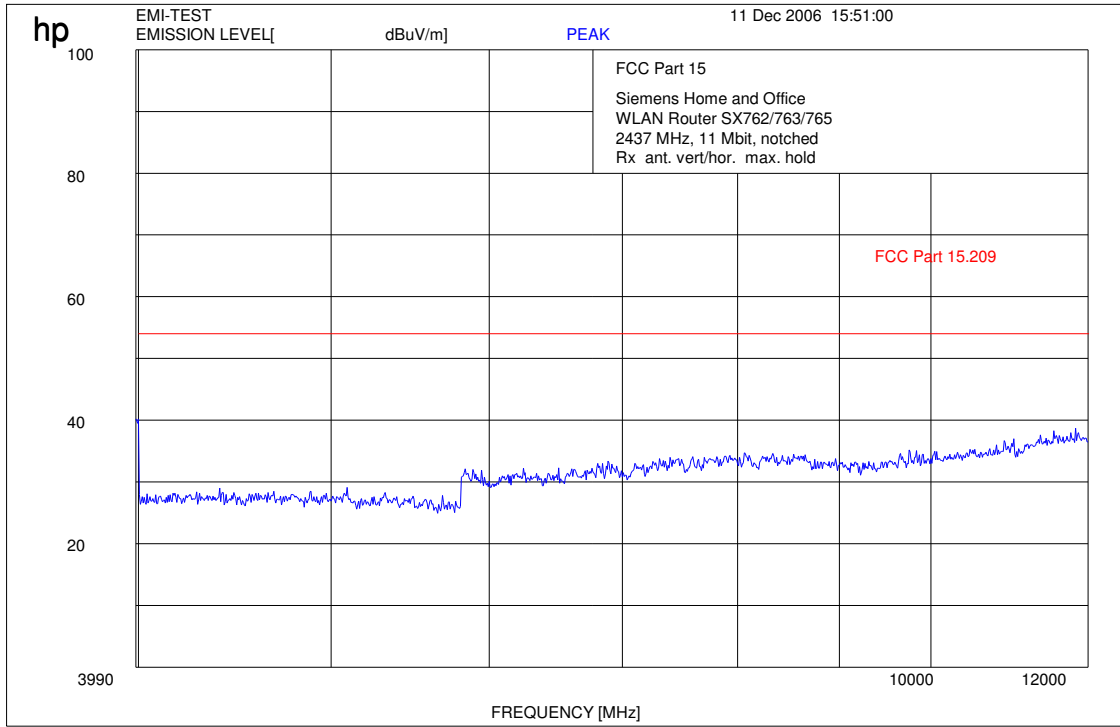
Plot 3: 12 – 25 GHz horizontal / vertical (valid for all three channels and both type of modulation)



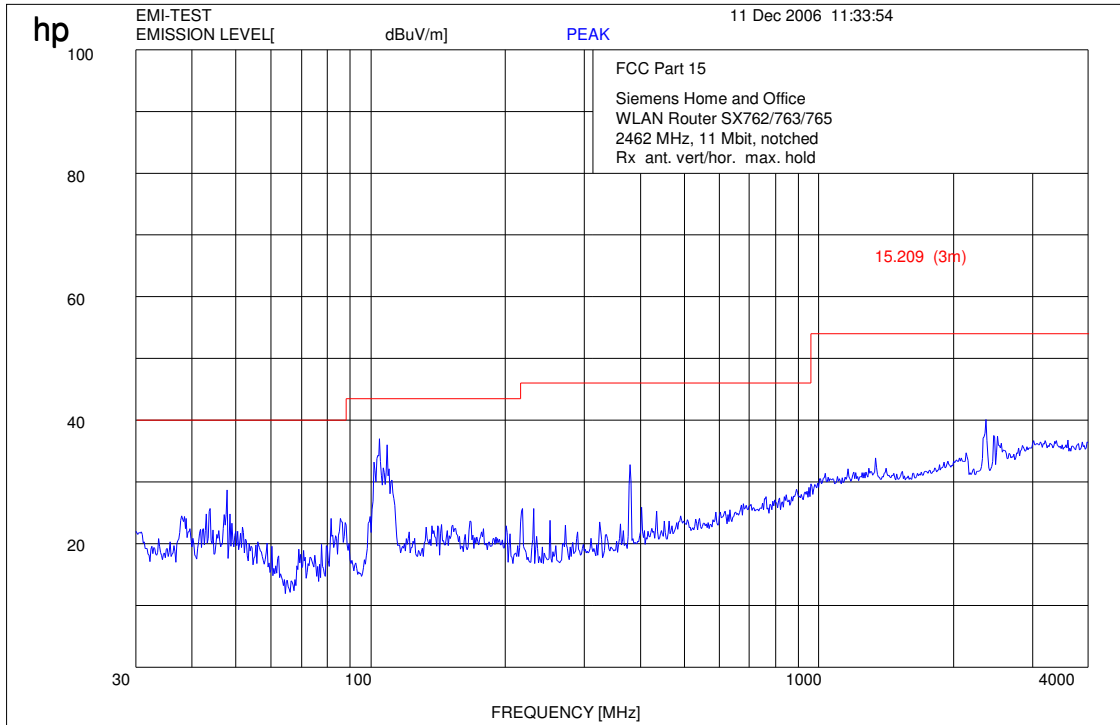
Plot 4: 0.03 - 4 GHz vertical / horizontal (middle channel) (DSSS)0



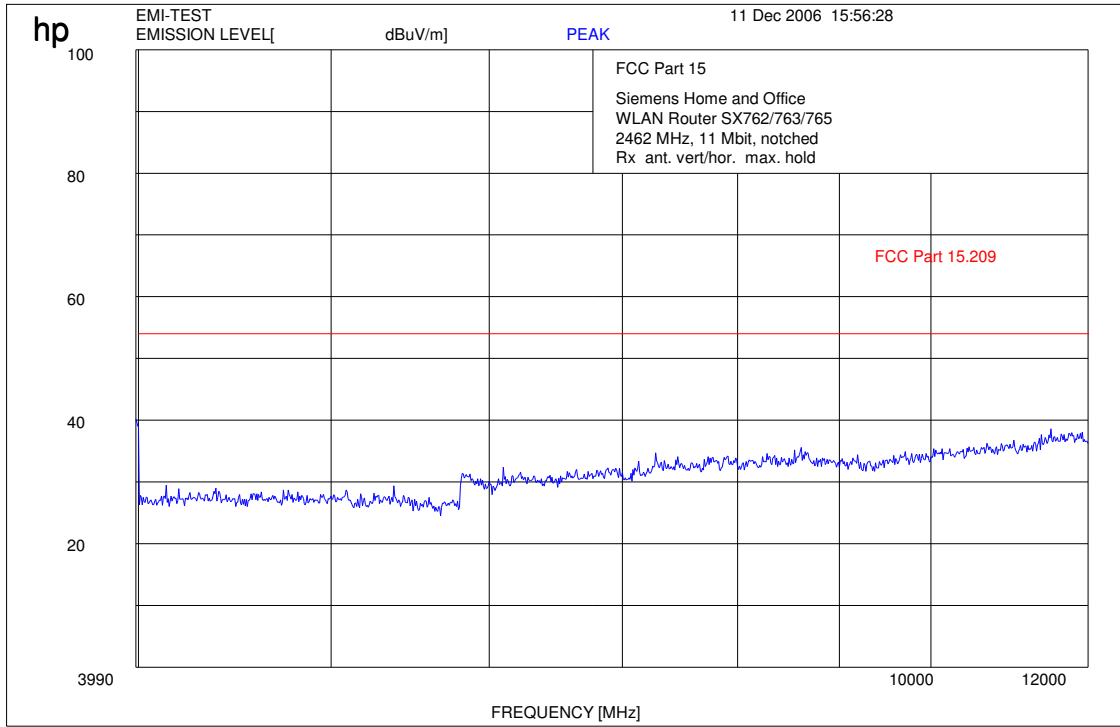
Plot 5: 4- 12 GHz (middle channel) (DSSS)



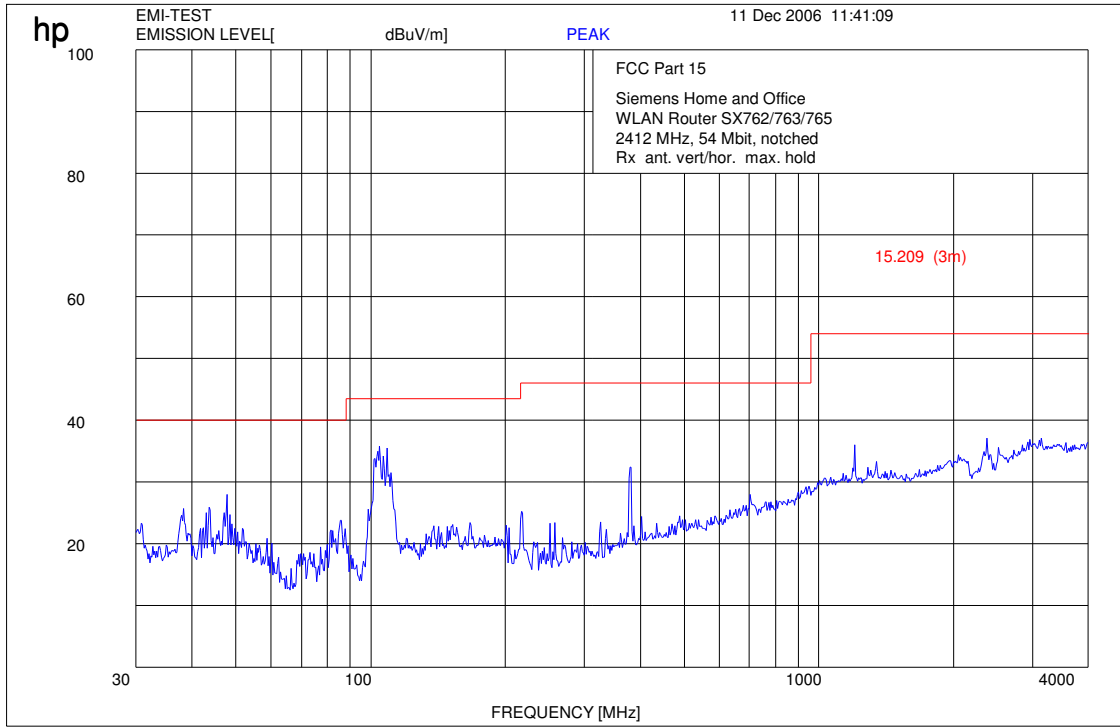
Plot 6: 0.03 - 4 GHz vertical / horizontal (highest channel) (DSSS)



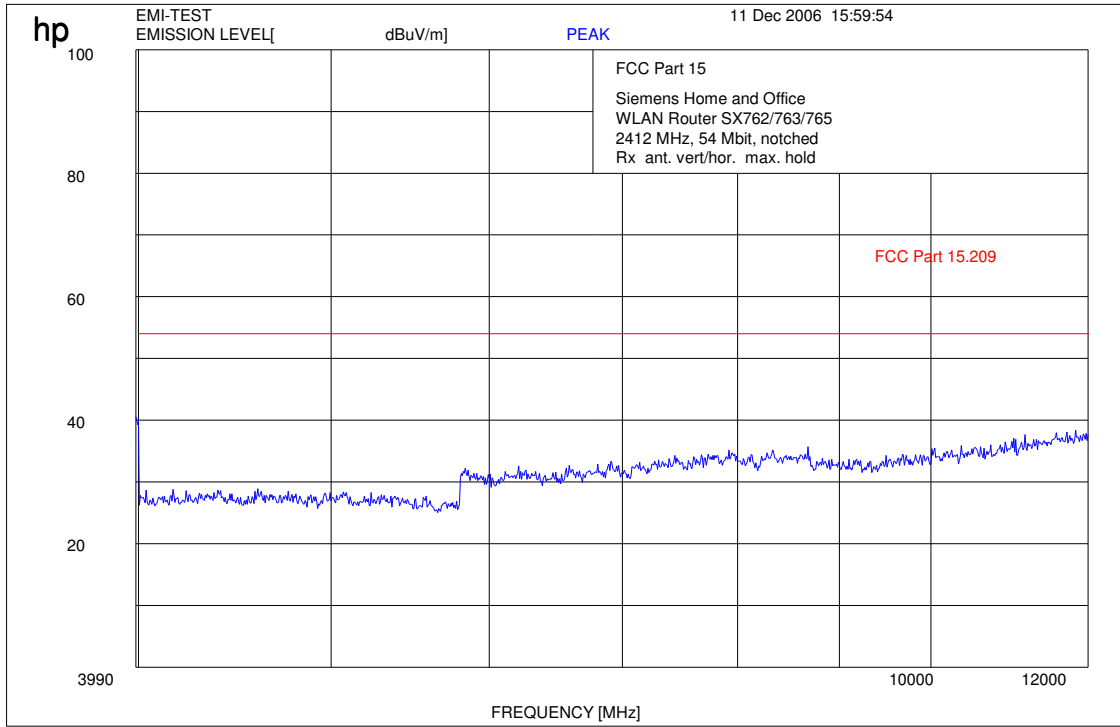
Plot 7: 4- 12 GHz (highest channel) (DSSS)



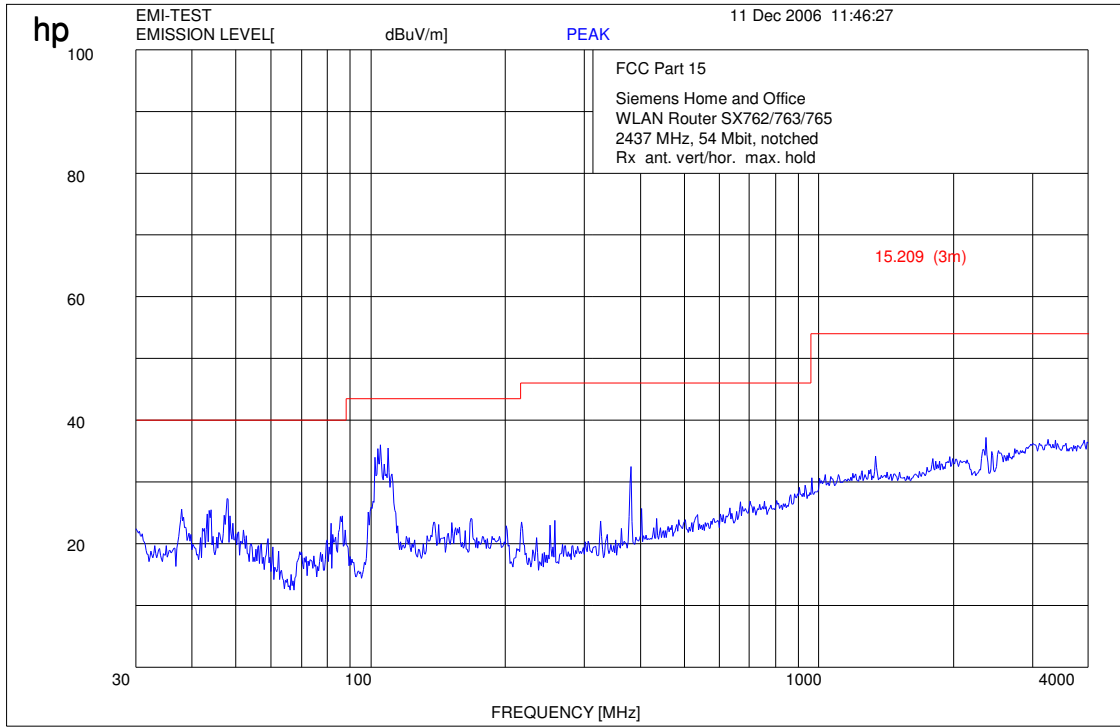
Plot 8: 0.03 - 4 GHz vertical / horizontal (lowest channel) (OFDM)



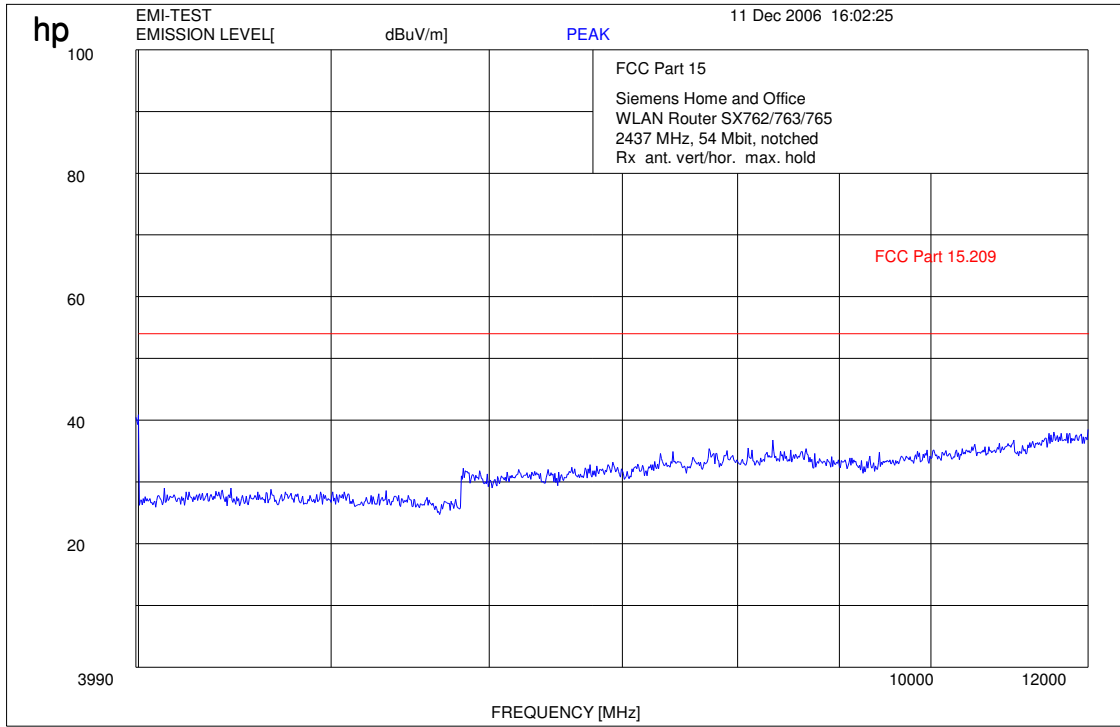
Plot 9: 4- 12 GHz (lowest channel) (OFDM)



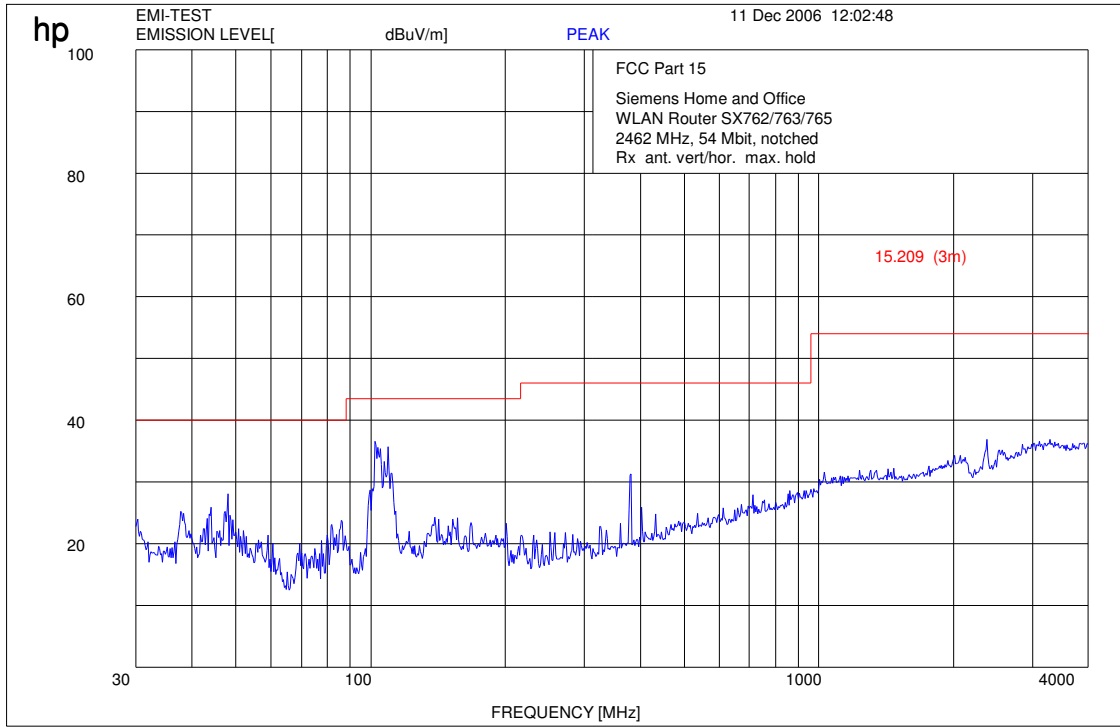
Plot 10: 0.03 - 4 GHz vertical / horizontal (middle channel) (OFDM)



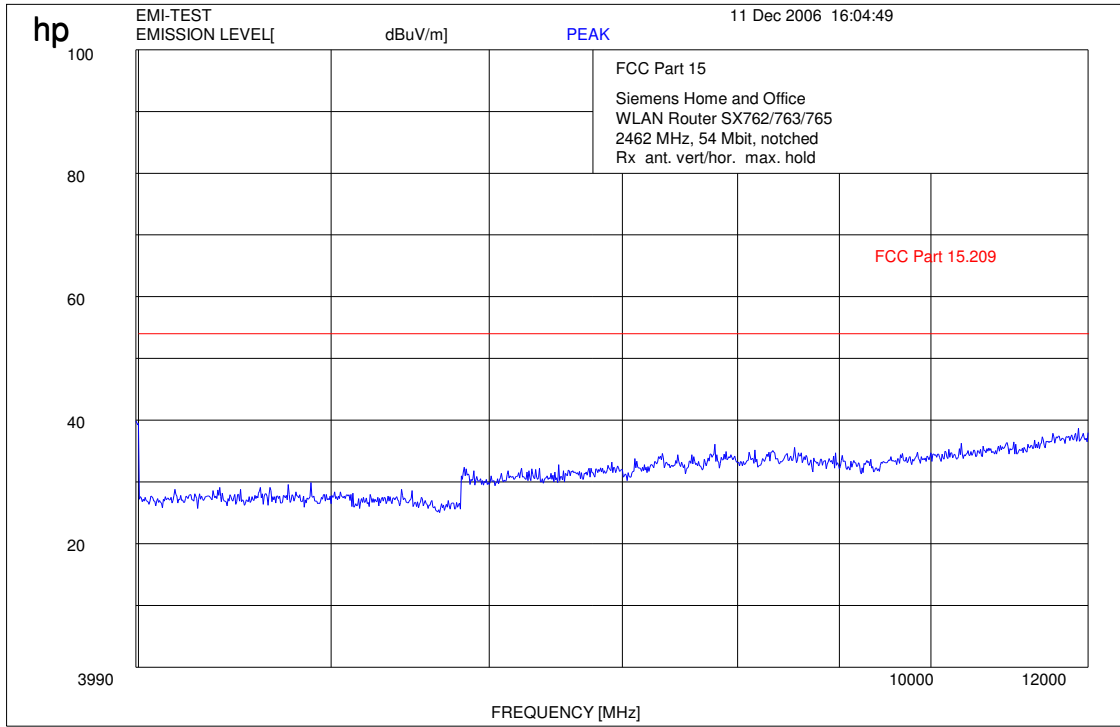
Plot 11: 4- 12 GHz (middle channel) (OFDM)



Plot 12: 0.03 - 4 GHz vertical / horizontal (highest channel) OFDM

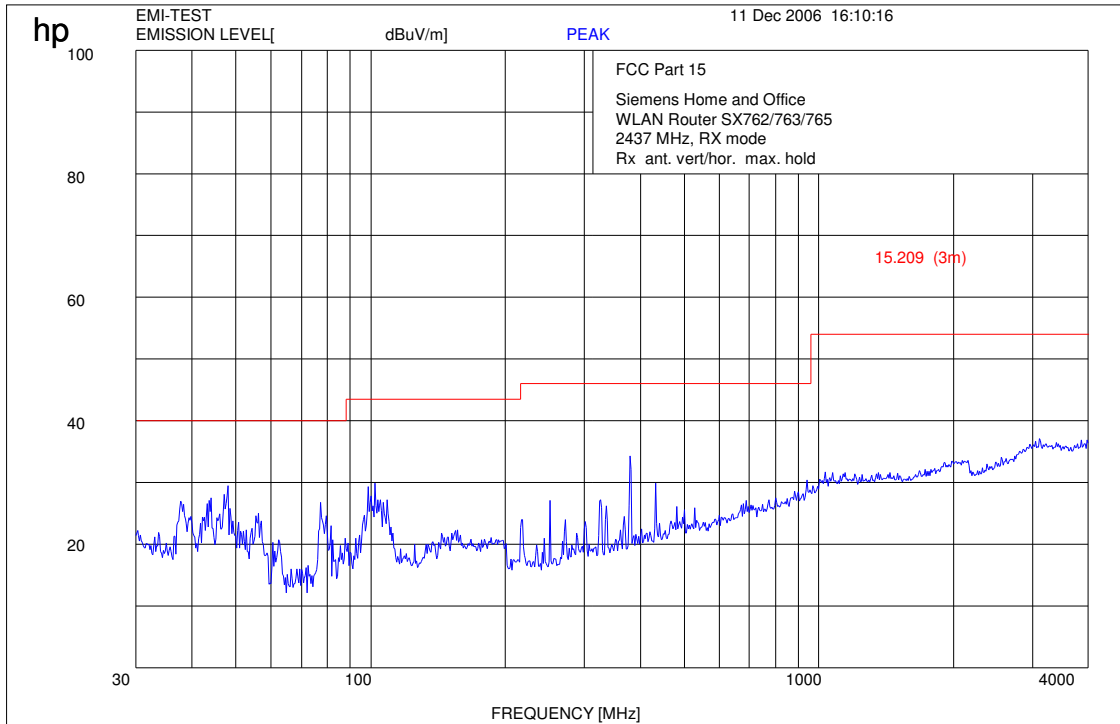


Plot 13: 4- 12 GHz (highest channel) (OFDM)

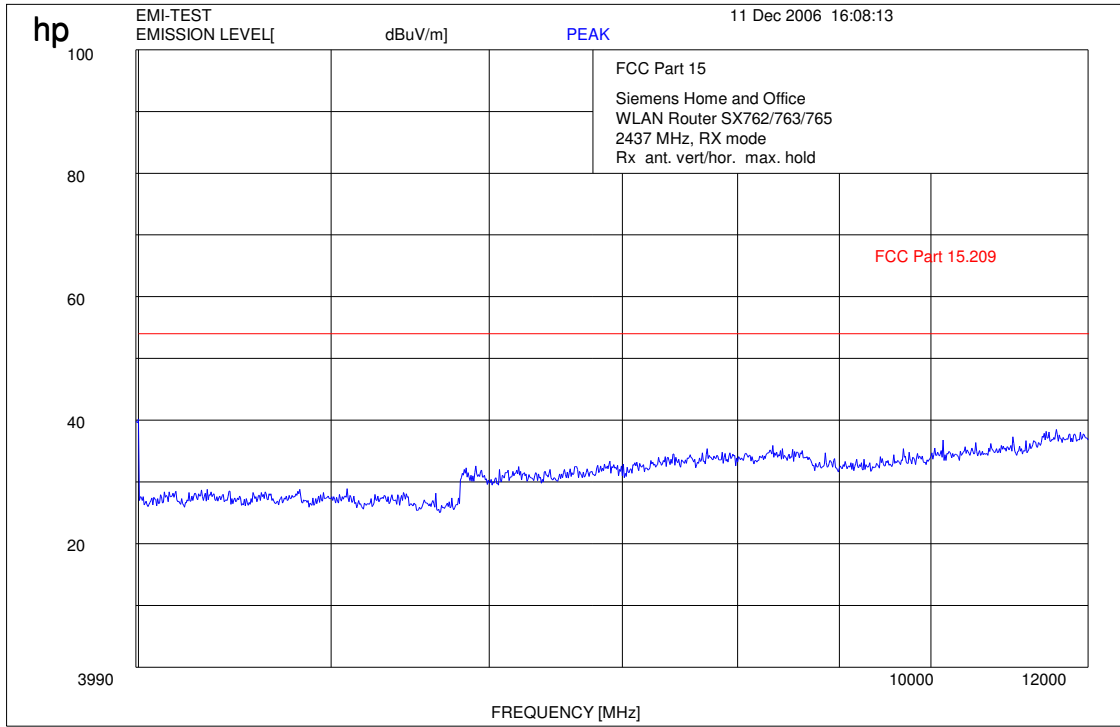


3.13 Spurious Emissions - radiated (Receiver) §15.109 / 209

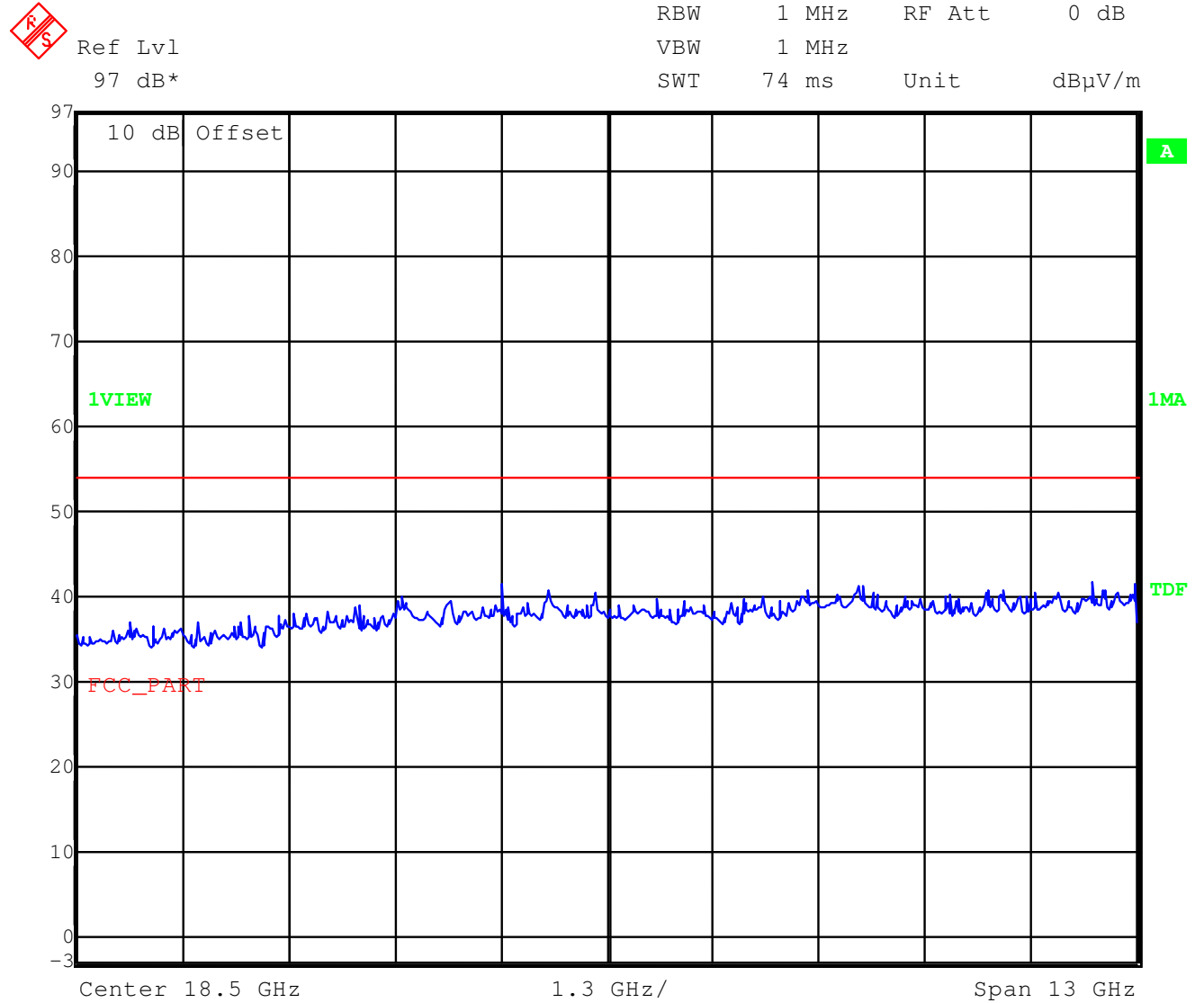
Plot 1: 0.03 - 4 GHz vertical / horizontal (receiver)



Plot 2: 4- 12 GHz (receiver)



Plot 3: 12- 25 GHz (receiver)

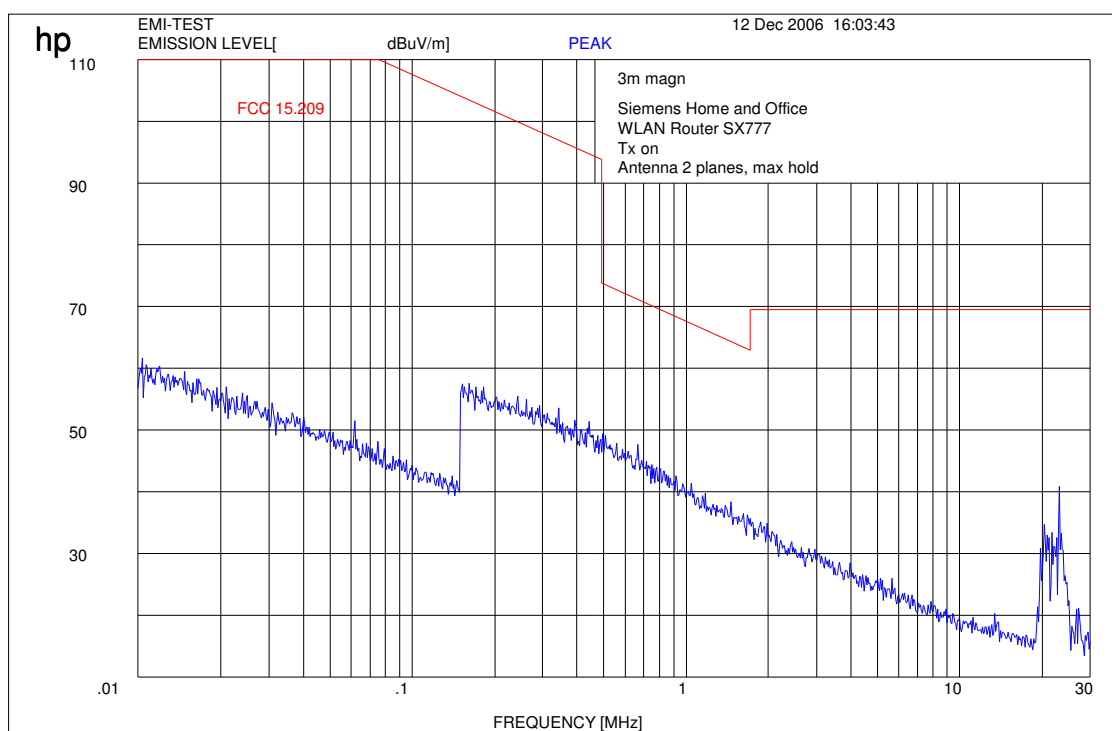


3.14 Spurious Emissions - radiated <30 MHz §15.209

Measured at 3 m distance.

Values recalculated with 40 dB/decade according to FCC rules.

Plot 1:

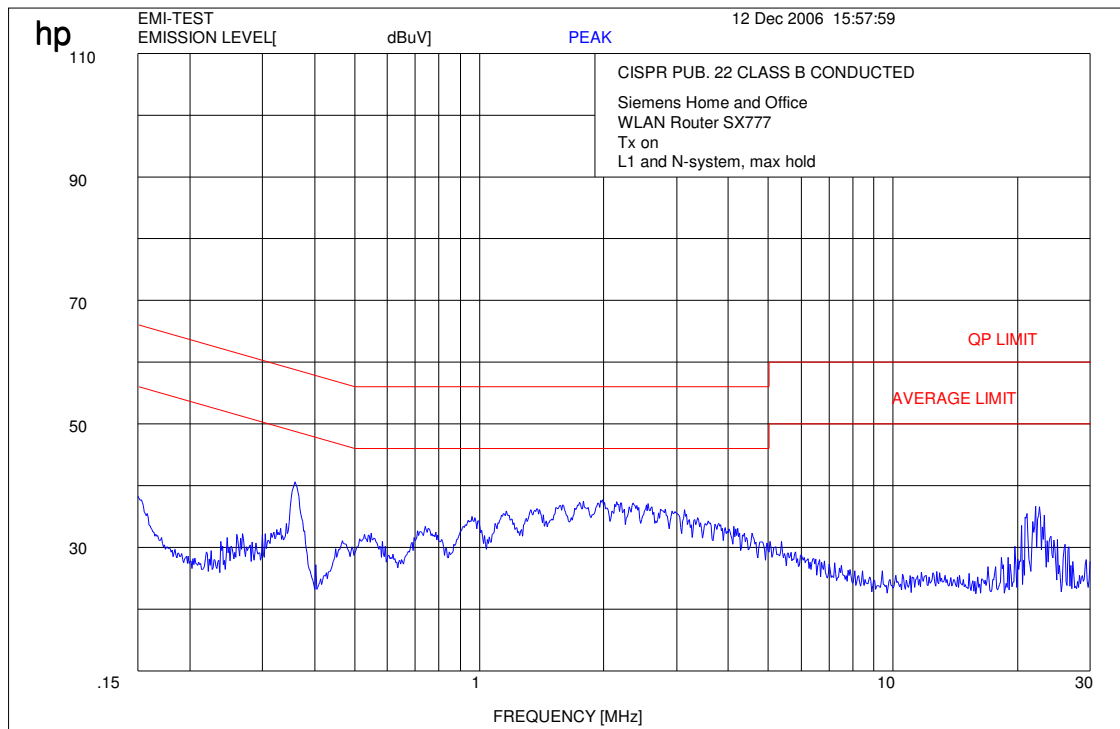


Limits:

Frequency (MHz)	Field strength ($\mu\text{V/m}$)	Measurement distance (m)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30 / 29.5 dB $\mu\text{V/m}$	30
30 - 88	100 / 40 dB $\mu\text{V/m}$	3
88 - 216	150 / 43.5 dB $\mu\text{V/m}$	3
216 - 960	200 / 46 dB $\mu\text{V/m}$	3
above 960	54 dB $\mu\text{V/m}$	3

3.15 Conducted Emissions <30 MHz §15.107/207

Plot 1: CISPR 22



We measured in TX and RX mode, L1 and N floating and grounded, max value was hold.

Limits :

Under normal test conditions only	See plots
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3.16 Used Testequipment

Anechoic chamber C:

Device	Manufacturer	Type	S/N Number	Inv. No. Cetecom
Spektrum Analyser	HP	8566B	2747A05306	300001000
Spektrum Analyser Display	HP	85662A	2816A16541	300002297
Quasi-Peak-Adapter	HP	85650A	2811A01131	300000999
Power Dupply	HP	6032A	2818A03450	300001040
Power Attenuator	Byrd	8325	1530	300001595
Biconical Antenna	EMCO	3104	3758	300001602
Log. Period. Antenna	EMCO	3146	2130	300001603
Double Ridged Antenna	EMCO	HP 3115P	3088	300001032
Active Loop Antenna	EMCO	6502	2210	300001015
Antenna VDE/FCC		HP11965B		300002298
SRM-Drive	HP	9144A	2823e46556	300001044
Software	HP	EMI		300000983
Busisolator	Kontron			300001056
Absorberhalle	MWB		87400/02	300000996
Salzsäule	Kontron			300001055
Antenna	R&S	HMO20	832211/003	300002243
Indukt.Tast Antenna	R&S	HFH 2 Z4	881468/026	300001464
System-Rack	HP I.V.	85900	*	300000222
Spectrum Analyzer	HP	8566B	2747A05275	300000219
Quasi-Peak-Adapter	HP	85650A	2811A01135	300000216
RF-Preselector	HP	85685A	2837A00779	300000218
Rahmen Antenne	R&S	HFH2-Z2	891847-35	300001169
Leitungsteiler	HP	11850C		300000997
Breitband-Hornantenne EMI	HP	35155P		300002300
PC	HP	Vectra VL		300001688
VHF Meßantenne	Schwarzbeck	VHA 9103		300001778
Spectrum Analyzer Display	HP	85662A	2816A16497	300001690
VHF Meßantenna	Schwarzbeck	VHA 9103		300001780
Biconical Antenna	EMCO	3104 C	9909-4868	300002590

SRD Laboratory:

Device	300001207	Type	S/N Number	Inv. No. Cetecom
Spectrum Analyzer	300001208	494AP	B010241	300000863
Spectrum Analyzer	HP	71210A (70000)	2731A02347	300000321
Spectrum Analyzer Display	HP	70206A	2840A01553	300002017
Reference Frequency	HP	70310A	2736A00707	300002018
Local Oscillator	HP	70900A	2842A02221	300002019
ZF-Modul 10Hz-300 kHz	HP	70902A	2840A02145	300002020
ZF-Modul 100 kHz-3 MHz	HP	70903A	2835A01069	300002021
HF-Teil für 71210A 100Hz- 22GHz	HP	70908A		300002022
Spectrum Analyzer 2	HP	85660B	3138A07614	
Spectrum Analyzer Display 2	HP	85662A	3144A20627	

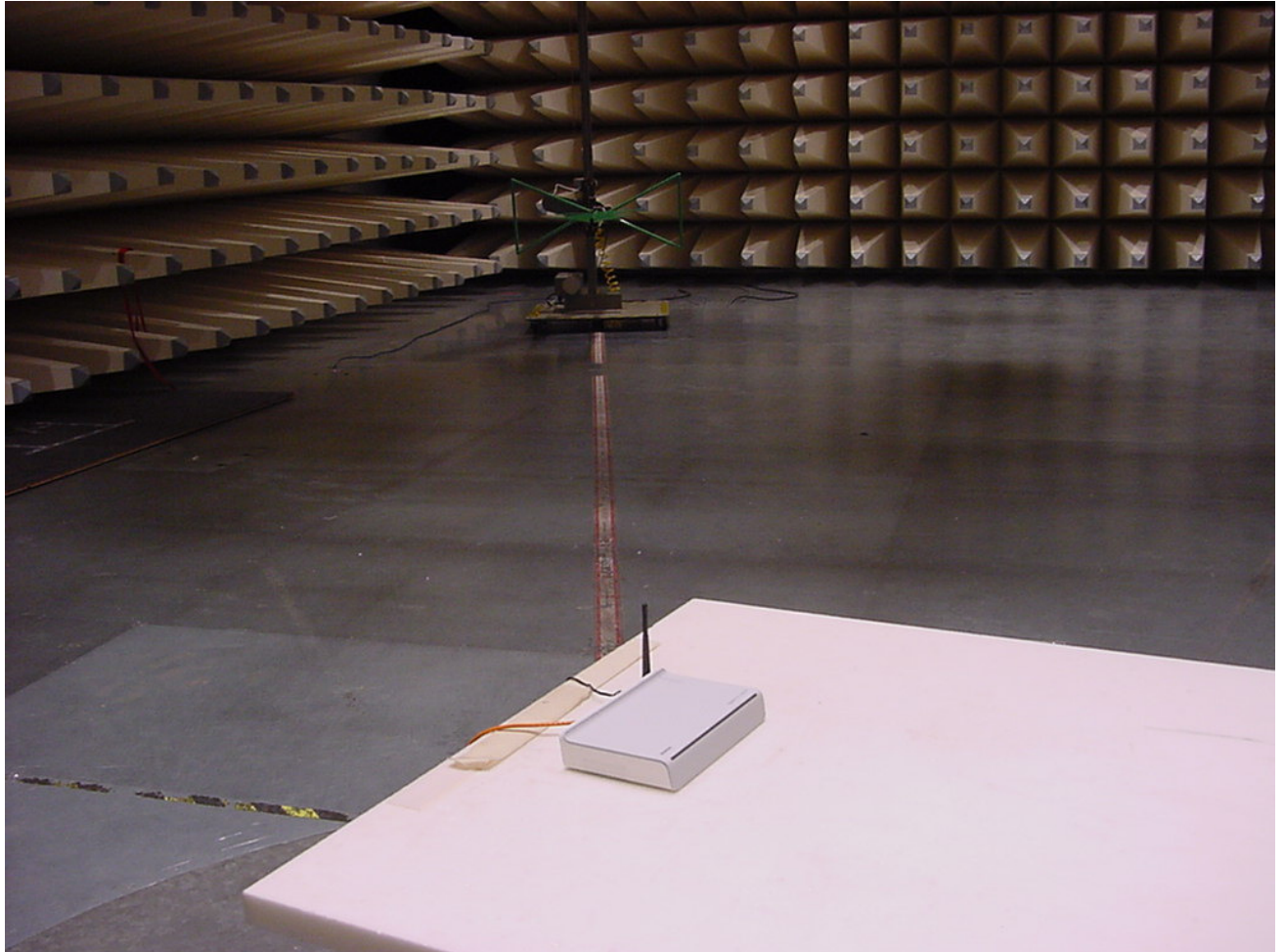
Signal Generator DC-600 KHz	HP	8904A	2822A01213	300001157
Signal Generator DC-600 KHz	HP	8904A	2822A01214	300001158
Powersupply	HP	6038A	3122A11097	300001204
Netznachbildung	R&S	ESH3-Z5	828576/020	300001210
Amplituden Controller	R&S	SMDU-Z2	871829/051	300002309
Trenntrafo	Erfi	913501		300001205
Trenntrafo	Grundig	RT5A	9242	300001627
Relais Matrix	HP	3488A	2719A15013	300001156
Multimeter	Siemens	Multizet		300001102
Peak Power Calibrator	HP	8900B		300001084
Schallgeber	Schomandl	SG 1	10159	300001209
Schallgeber	Schomandl	SG 2	10176	300002473
Filter	FSY Microwave			300001206
Attenuatorer	Pro Nova			300002476
Klimaschrank	Heraeus Voetsch	VUK04/500		300001012
Spectrum Analyzer 3	HP	8566A	1925A00257	300001098
Spectrum Analyzer Display 3	HP	85662	1925A00860	300002306
Oszilloscope	Tektronix	2432	110261	300001165
Radiocom. Analyzer	R&S	CMTA 54	894043/010	300001175
Powersupply	HP	6038A	2848A07027	300001174
Signal Generator 0.01-1280 MHz	HP	8662A	2224A01012	300001110
Signal Generator (Funkions)	R&S	AFGU	862490/032	300001201
Trenntrafo	Erfi	MPL	91350	300001155
Relais Matrix	R&S	PSU	893285/020	300001173
Power Meter	HP	436A	2101A12378	300001136
Powersensor	HP	8484A	2237A10156	300001140
Powersensor	HP	8482A	2237A06016	300001139
Relais Matrix	R&S	PSU	282628/004	300001214
Powersupply	Zentro		2007	300001109
Oszilloscope	Tektronix	7633		300001111
Klimaschrank	Heraeus Voetsch	VUK04/500	32926	300001500
Quasi-Peak Adapter	HP	85650A	2811A01204	300002308
Radiocom. Analyzer	R&S	CMTA 84	894199/012	300001176
Oszilloscope	HP	54510A	3022A02062	300001202
Funkmeßplatz	Schomandl	FD1000	34982	300001115
Signal Generator	R&S	SMPC	882416/019	300001162
Frequency counter	HP	5340A	2116A08138	300001104
Power Meter	HP	436A	2031U01461	300001105
Powersensor	HP	8482A		300001106
Powersensor	HP	8484A		300001107
Powersensor	HP	8485A		300001108
Powersupply	HP	6038A	2752A04866	300001161
Reflectionsmeter	R&S	NAP	879191	300001132
Signal Generator NF	R&S	SPN	880139/068	300001142
Trenntrafo	Erfi	MPL	91350	300001151
Attenuator	JFW	30 db	1350h/104	300001703
Attenuator	JFW	10 db	1350h/103	300001704
Attenuator	JFW	20 db	1350h/106	300001705
Attenuator	JFW	20 db	1350h/105	300001766
Filter	Spinner	153755		300001791

Powersensor	HP	8484A	2237A10494	300001666
Powersupply	HP	6038A	3122A11097	300001204
Netznachbildung	R&S	ESH3-Z5	828576/020	300001210
Amplituden Controller	R&S	SMDU-Z2	871829/051	300002309
Trenntrafo	Erfi	913501		300001205
Trenntrafo	Grundig	RT5A	9242	300001627
Relais Matrix	HP	3488A	2719A15013	300001156
Multimeter	Siemens	Multizet		300001102
Peak Power Calibrator	HP	8900B		300001084
Schallgeber	Schomandl	SG 1	10159	300001209
Schallgeber	Schomandl	SG 2	10176	300002473
Filter	FSY Microwave			300001206
Attenuatorer	Pro Nova			300002476
Klimaschrank	Heraeus Voetsch	VUK04/500		300001012
Spectrum Analyzer 3	HP	8566A	1925A00257	300001098
Spectrum Analyzer Display 3	HP	85662	1925A00860	300002306
Oszilloscope	Tektronix	2432	110261	300001165
Radiocom. Analyzer	R&S	CMTA 54	894043/010	300001175
Powersupply	HP	6038A	2848A07027	300001174
Signal Generator 0.01-1280 MHz	HP	8662A	2224A01012	300001110
Signal Generator (Funkions)	R&S	AFGU	862490/032	300001201
Trenntrafo	Erfi	MPL	91350	300001155
Relais Matrix	R&S	PSU	893285/020	300001173
Power Meter	HP	436A	2101A12378	300001136
Powersensor	HP	8484A	2237A10156	300001140
Powersensor	HP	8482A	2237A06016	300001139
Relais Matrix	R&S	PSU	282628/004	300001214
Powersupply	Zentro		2007	300001109
Oszilloscope	Tektronix	7633		300001111
Klimaschrank	Heraeus Voetsch	VUK04/500	32926	300001500
Quasi-Peak Adapter	HP	85650A	2811A01204	300002308
Radiocom. Analyzer	R&S	CMTA 84	894199/012	300001176
Oszilloscope	HP	54510A	3022A02062	300001202
Funkmeßplatz	Schomandl	FD1000	34982	300001115
Signal Generator	R&S	SMPC	882416/019	300001162
Frequency counter	HP	5340A	2116A08138	300001104
Power Meter	HP	436A	2031U01461	300001105
Powersensor	HP	8482A		300001106
Powersensor	HP	8484A		300001107
Powersensor	HP	8485A		300001108
Powersupply	HP	6038A	2752A04866	300001161
Reflectionsmeter	R&S	NAP	879191	300001132
Signal Generator NF	R&S	SPN	880139/068	300001142
Trenntrafo	Erfi	MPL	91350	300001151
Attenuator	JFW	30 db	1350h/104	300001703
Attenuator	JFW	10 db	1350h/103	300001704
Attenuator	JFW	20 db	1350h/106	300001705
Attenuator	JFW	20 db	1350h/105	300001766
Filter	Spinner	153755		300001791
Powersensor	HP	8484A	2237A10494	300001666

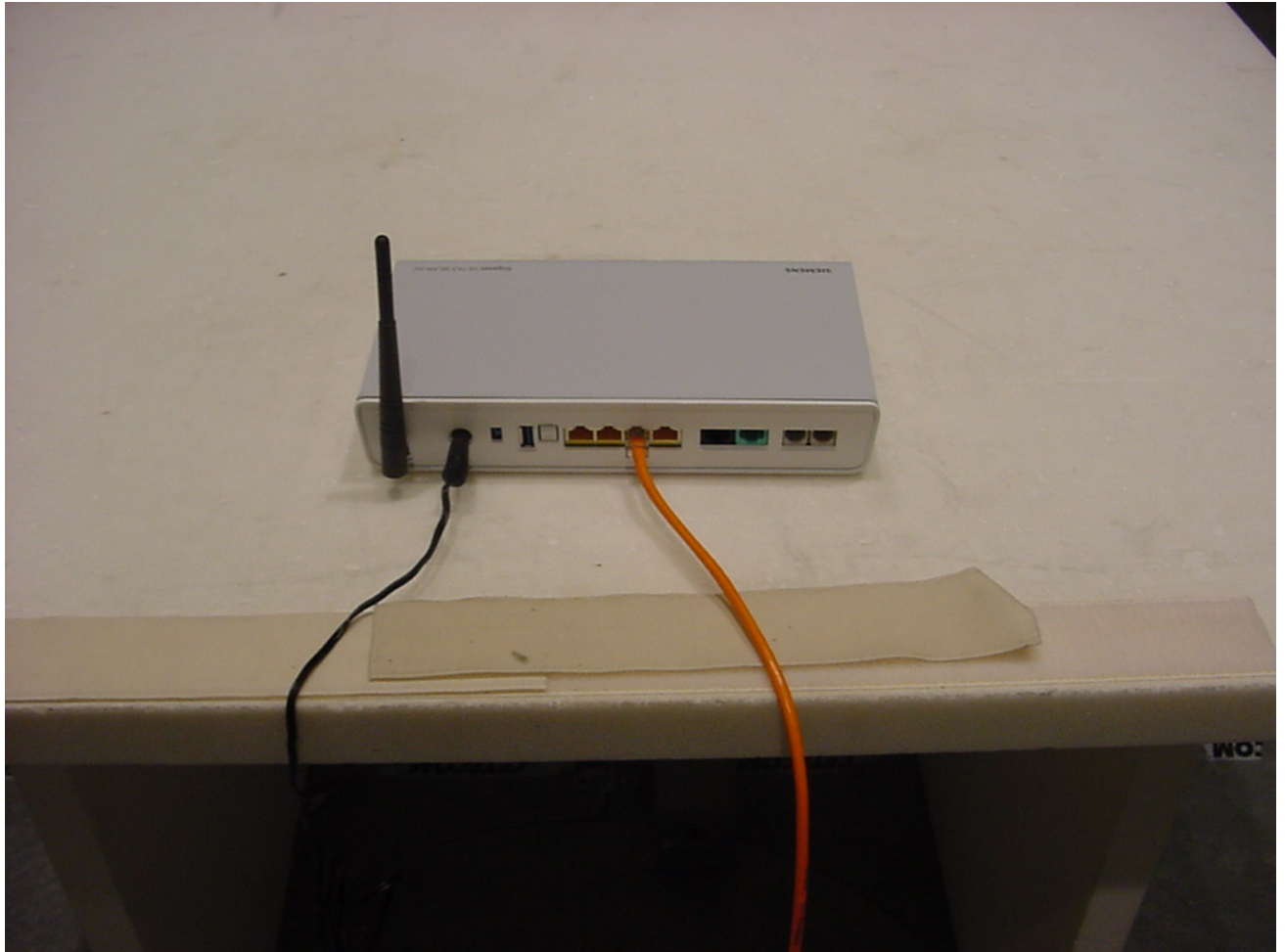
Powersensor	HP	8485A	2238A00849	300001668
Bandfilter	Telonic	TTF7255EE	20293-11	300001300
Bandfilter	Telonic	TTF12555EE	20292-6	300001302
Bandfilter	Telonic	TTF25055EE	20291-8	300001304
Bandfilter	Telonic	TTF50055EE	20290-7	300001305
Bandfilter	Telonic	TTF100055EE	20289-7	300001307
Bandfilter	Telonic	TTA300055EESN	20370-2	300001312
Bandstop	Telonic	TTR3753EE1	30013-1	300001314
Bandstop	Telonic	TTR723EE	20417-2	300001316
Bandstop	Telonic	TTR95-3EE	20372-4	300001318
Bandstop	Telonic	TTR1903EE	30036-4	300001320
Bandstop	Telonic	TTR3753EE	20369-5	300001321
Bandstop	Telonic	TTR750-3EE1	90177-1	300002387
Highpass	Pro Nova	HDP120-6GG	ohne	300001348
Highpass	Pro Nova	HMC500-6AA	HJ67-01?	300001350
Highpass	Narda	NHP 9000	0004	300001362
Highpass	Narda	HDP16-6GH	JV70-01	300001364
Highpass	RSD	HDP50-6GH, HDP200-6GG		300001371
Highpass	RSD	2099-02-01		300000370
Signal Generator 0.1-2060 MHz	HP	8657A	2838U00736	300001009
Radio Code Analyzer	Schlumberger	SL4922		300001038
Signal Analyzer	B&K	2033		300001047
Frequency counter	HP	5386A	2704A01243	300000998
Laufzeitelement	WR-Elektronik			300001036
Powersupply Stromversorgung	Systron	M5P 40/15A	828233	300001291
Powersupply	Heiden	1108-32	1701	300001392
Powersupply	Heiden	1108-32	1802	300001383
Powersupply	Heiden	1108-32	003202	300001187
Powersupply	Zentro	LA 2x30/5GB1	2011	300001276
Powersupply	Zentro	LA 2x30/5GB2	2012	300001275
Powersupply	Zentro	LA 30/5GA	2041,2042	300001287
Trenntrafo	Grundig	RT5A	8781	300001277
Trenntrafo	Grundig	RT5A	9242	300001263
Multimeter	Goerz Elektro	Unigor 6e P	911 355	300001625
Multimeter	Goerz Elektro	Unigor 6e P	911 391	300001281
Climatic Box	Heraeus Voetsch	VUK04/500	32679	300000299
Powersensor + Att.	HP	8482B	2703A02586	300001492
Attenuator 30 dB	HP	8498A	1801A02445	300001475
Signal Generator NF	HP		2822A01203	300001004
Attenuator	Spinner	BN 534171 D	51881	300001516
Attenuator coaxial	Bird	8325	2429	300001513
Spectrum analyzer	R&S	FSU50		300003443
4Port Box	R&S	4Port Box	860457/005	300001472
Signal Generator 0.1-4200 MHz	HP	8665A	2833A0011	300002299
NF-Spektrumanalyzer	B&K	2033A		300002301
Swissphone Freifeld-Messbox	Swissphone Schweiz			300002302
Trenntrafo regelbar	Grundig	RT5H	9242	300001628
Signal Generator	HP	8111A	2215G00867	300001117

4 Photographs

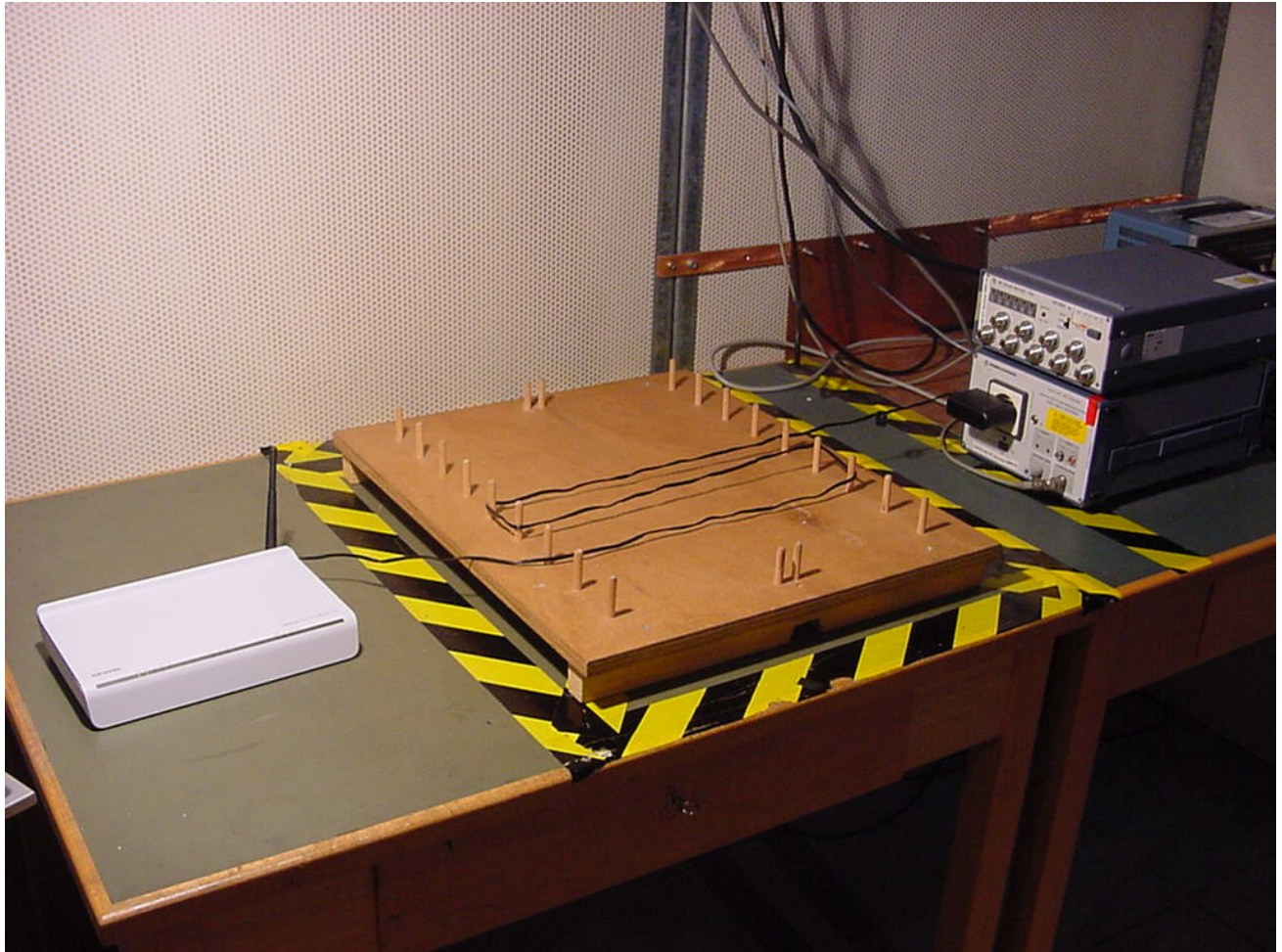
Test site:



Test site:



AC-conducted:



Test sample:



