

TEST REPORT

Test Report No.: 1-1954-31-06/10-E



Testing Laboratory

CETECOM ICT Services GmbH

Untertürkheimer Straße 6 – 10

66117 Saarbrücken/Germany

Phone: + 49 681 5 98 - 0

Fax: + 49 681 5 98 - 9075

Internet: <http://www.cetecom-ict.de>

e-mail: info@ict.cetecom.de

Accredited Test Laboratory:

The test laboratory (area of testing) is accredited according to DIN EN ISO/IEC 17025

DAR registration number: DGA-PL-176/94-D1

Area of Testing: Radio Satellite Communications

Applicant

Sony Ericsson Mobile Communications AB

Nya Vattentorget

22188 Lund/Sweden

Phone: +46 46 19 30 00

Fax: +46 46 19 32 95

Contact: Johan Wedin

e-mail: johan.wedin@sonyericsson.com

Phone: +46 707 19 57 36

Manufacturer

Sony Ericsson Mobile Communications AB

Nya Vattentorget

22188 Lund/Sweden

Test Standard/s

47 CFR Part 15

Title 47 of the Code of Federal Regulations; Chapter I-Federal Communications Commission

subchapter A - general, Part 15-Radio frequency devices

RSS - 210 Issue 7

Spectrum Management and Telecommunications - Radio Standards Specification
Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands):
Category I Equipment

For further applied test standards please refer to section 3 of this test report.

Test Item

Kind of test item: Mobile Phone 850/900/1800/1900/UMTS /HSDPA /HSUPA/ BT2.0+EDR, A-GPS, FM Rx, WLAN

Model name: AAD-3880091-BV

FCC ID: PY7A3880091

IC: 4170B-A3880091

Frequency [MHz]: 2400 MHz – 2483.50 MHz

Power supply: 3.70V DC by Li-Polymer Battery (EP500)

Temperature range: 22 °C

Test performed:

2010-07-20 Jakob Reschke

Test Report authorised:

2010-07-20 Stefan Bös

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2 General Information

2.1 Notes

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

2.2 Application details

Date of receipt of order:	2010-06-16
Date of receipt of test item:	2010-06-24
Start of test:	2010-06-24
End of test:	2010-06-30
Person(s) present during the test:	-/-

3 Test standard/s

Test Standard	Version	Test Standard Description
47 CFR Part 15	2009-10	Title 47 of the Code of Federal Regulations; Chapter I-Federal Communications Commission subchapter A - general, Part 15-Radio frequency devices
RSS - 210 Issue 7	2007-06	Spectrum Management and Telecommunications - Radio Standards Specification Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment

4 Test Environment

Temperature:	T _{nom}	22 °C during room temperature tests
	T _{max}	-/- °C during high temperature test
	T _{min}	-/- °C during low temperature test
Relative humidity content:		53 %
Air pressure:		not relevant for this kind of testing
Power supply:	V _{nom}	3.70 V DC by Li-Polymer Battery (EP500)
	V _{max}	-/- V
	V _{min}	-/- V

5 Test item

Kind of test item	:	Mobile Phone 850/900/1800/1900/UMTS /HSDPA/HSUPA/ BT2.0+EDR, A-GPS, FM Rx, WLAN
Type identification	:	AAD-3880091-BV
S/N serial number	:	Rad. CB511JVN2L Cond. CB511JVN32
HW hardware status	:	AP1
SW software status	:	1.2.A.0.8 ATP
Frequency Band [MHz]	:	2400 MHz – 2483.50 MHz
Type of Modulation	:	DSSS & OFDM - BPSK, QPSK, 16 QAM, 64 QAM
Number of channels	:	11
Antenna	:	Integrated antenna
Power Supply	:	3.70 V DC by Li-Polymer Battery (EP500)
Temperature Range	:	22 °C

6 Test Laboratories sub-contracted

None

7 Summary of measurement results



No deviations from the technical specifications were ascertained



There were deviations from the technical specifications ascertained

TC Identifier	Description	Verdict	Date	Remark
RF-Testing	CFR Part 15 RSS 210, Issue 7, Annex 8	Passed	2010-07-20	-/-

Test Specification Clause	Test Case	Temperature Conditions	Power Source Voltages	Mode	Pass	Fail	NA	NP	Results (max.)
§15.247(b)(4) RSS 210 / A8.4(2)	Antenna Gain	Nominal	Nominal	DSSS	☒	☐	☐	☐	complies
§15.247(e) RSS 210 / A8.2(b)	Power spectral density	Nominal	Nominal	DSSS OFDM	☒ ☒	☐ ☐	☐ ☐	☐ ☐	complies
§15.247(a)(2) RSS 210 / A8.2(a)	Spectrum bandwidth of a FHSS system 6dB bandwidth	Nominal	Nominal	DSSS OFDM	☒ ☒	☐ ☐	☐ ☐	☐ ☐	
§15.247(a)(2) RSS 210 / A8.2(a)	Spectrum bandwidth of a FHSS system 20dB bandwidth	Nominal	Nominal	DSSS OFDM	☒ ☒	☐ ☐	☐ ☐	☐ ☐	
§15.247(b)(3) RSS-210 / A8.4(4)	Maximum output power	Nominal	Nominal	DSSS OFDM	☒ ☒	☐ ☐	☐ ☐	☐ ☐	
§15.247(d) RSS-210 / A8.5	Band edge compliance conducted	Nominal	Nominal	DSSS OFDM	☒ ☒	☐ ☐	☐ ☐	☐ ☐	complies
§15.205 RSS-210 / A8.5	Band edge compliance radiated	Nominal	Nominal	DSSS OFDM	☒ ☒	☐ ☐	☐ ☐	☐ ☐	complies
§15.247(d) RSS-210 / A8.5	TX spurious emissions conducted	Nominal	Nominal	DSSS OFDM	☒ ☒	☐ ☐	☐ ☐	☐ ☐	complies
§15.247(d) RSS-210 / A8.5	TX spurious emissions radiated	Nominal	Nominal	DSSS OFDM	☒ ☒	☐ ☐	☐ ☐	☐ ☐	complies
§15.109 RSS-Gen.	RX spurious emissions radiated	Nominal	Nominal	-/-	☒	☐	☐	☐	complies
§15.209(a) RSS-Gen	TX spurious emissions radiated < 30 MHz	Nominal	Nominal	DSSS OFDM	☒ ☒	☐ ☐	☐ ☐	☐ ☐	complies
§15.107(a)	Conducted emissions < 30 MHz	Nominal	Nominal	DSSS OFDM	☒ ☒	☐ ☐	☐ ☐	☐ ☐	complies

Note: NA = Not Applicable; NP = Not Performed

8 RF measurement testing

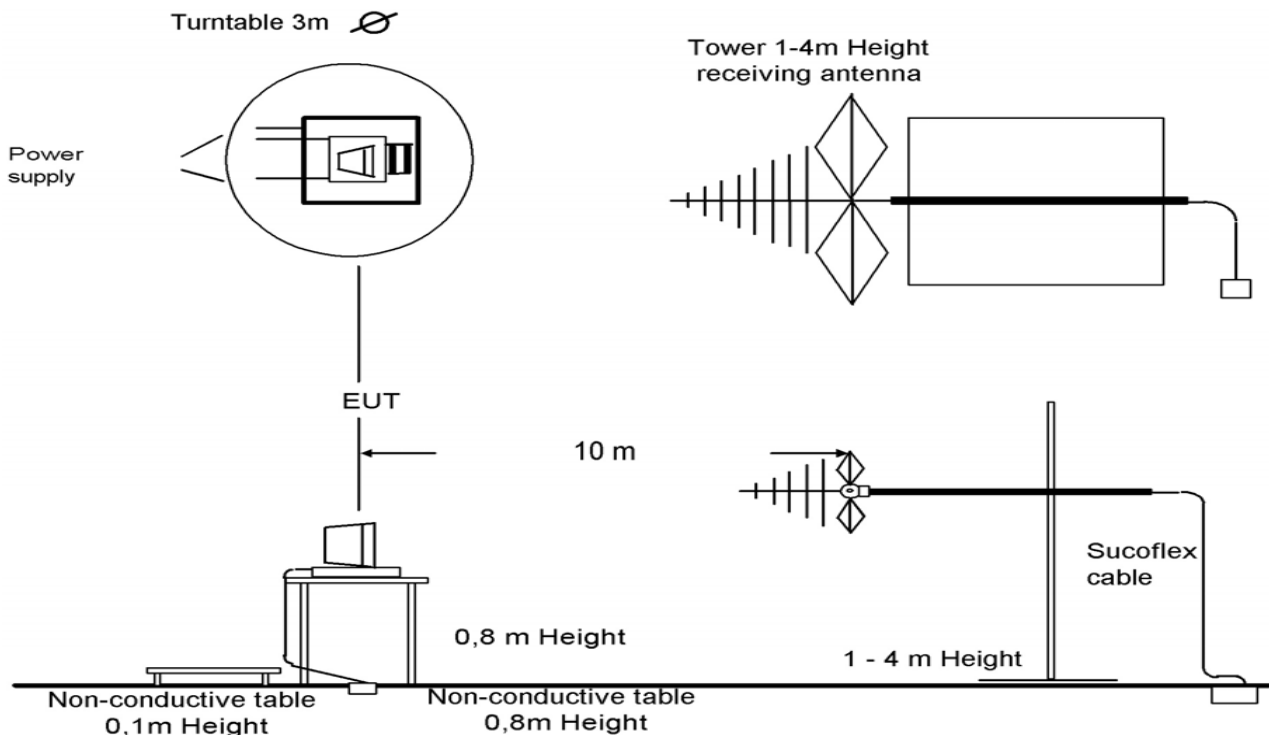
8.1 Description of test setup

8.1.1 Radiated measurements

The radiated measurements are performed in vertical and horizontal plane in the frequency range from 9 kHz to 25 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 are confirmed 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 setups 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 are confirmed with ANSI C63.2-1996 item 15.

Semi anechoic chamber



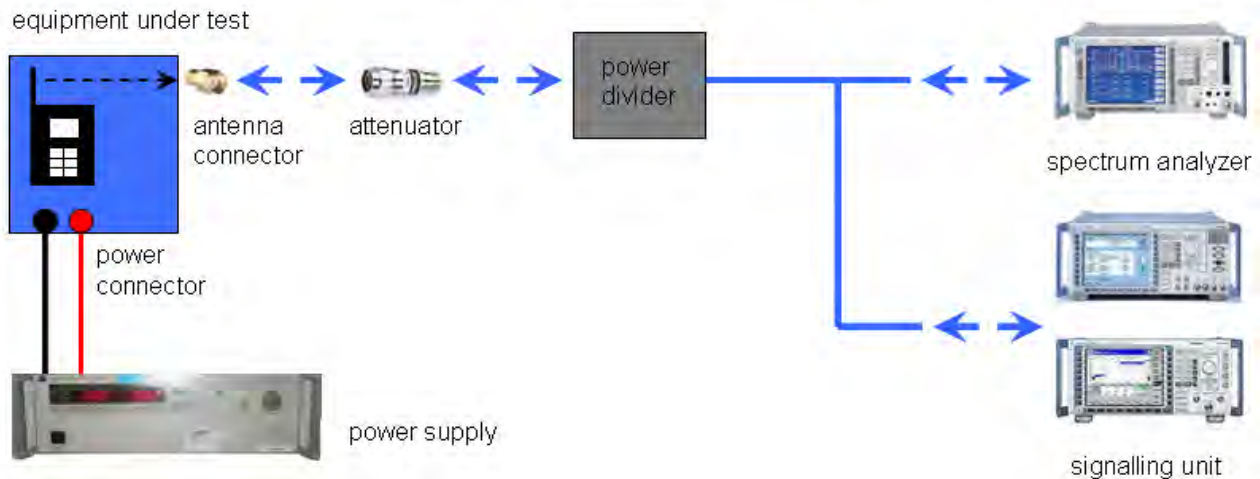
Picture 1: Diagram radiated measurements

9 kHz - 30 MHz:	active loop antenna
30 MHz – 1 GHz:	tri-log antenna
> 1 GHz:	horn antenna

The EUT is powered by an external power supply with nominal voltage. The signalling is performed from outside the chamber with a signalling unit (CMU200 or other) by air link using signalling antenna.

8.1.2 Conducted measurements

The EUT's RF signal is coupled out by the antenna connector which is supplied by the manufacturer. The signal is first 10dB attenuated before it is power divided (~6dB loss per branch). One of the signal paths is connected to the communication base Station (CMU200 or other), the other one is connected to the spectrum analyzer. The specific losses for both signal paths are first checked within a calibration. The measurement readings on the signalling unit/spectrum analyzer are corrected by the specific test set-up loss. The attenuator, power divider, signalling unit and the spectrum analyzer are impedance matched on 50 Ohm.



Picture 2: Diagram conducted measurements

8.2 Additional comments

Reference documents: None

Special test descriptions: None

Configuration descriptions: The EUT was programmed over the CLI, with the output power values of 18.
The Duty cycle during the measurements was 97.60%.

8.3 Additional EUT information for IC Canada (Appendix 2)

IC Registration Number	:	4170B-A3880091
Kind of test item	:	Mobile Phone 850/900/1800/1900/UMTS /HSDPA/HSUPA/ BT2.0+EDR, A-GPS, FM Rx, WLAN
Type identification	:	AAD-3880091-BV
Manufacturer (complete Address)	:	Sony Ericsson Mobile Communications AB Nya Vattentorget 22188 Lund / Sweden
Frequency	:	2400 – 2483.5 MHz-band (2412 – 2462 MHz)
RF-power [W] (max.)	:	cond.: 103.99 mW (DSSS) 230.67 mW (OFDM) EIRP: 125.03 mW (DSSS) 279.25 mW (OFDM)
Antenna Type	:	Integrated antenna
Occupied bandwidth (99%-BW) [MHz]	:	DSSS: 16.68 MHz OFDM: 18.14 MHz
Type of modulation	:	DSSS & OFDM - BPSK, QPSK, 16 QAM, 64 QAM
Emission Designator (TRC-43)	:	16M7G1D (DSSS) 18M1G1D (OFDM)
Number of channels	:	11
Power supply (normal)	:	3.70 V DC by Li-Polymer Battery (EP500)
Transmitter Spurious (worst case) [µV/m @ 3m]	:	316 µV/m (Noise floor)
Receiver Spurious (worst case) [µV/m @ 3m]	:	316 µV/m (Noise floor)
Open Area Test Site IC No.	:	IC 3462C-1
IC Standards	:	RSS 210, Issue 7, Annex 8

ATTESTATION:

DECLARATION OF COMPLIANCE:

I attest 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.

Laboratory Manager:

2010-07-20
Date

Jakob Reschke
Name



Signature

9 Measurement Results

9.1 Maximum Output Power (conducted)

Description:

Measurement of the maximum output power conducted. This measurement is performed only at the middle channel in both modes and all data rates to determine the data rate per mode which results in the highest output power. This mode will be selected for all further measurements.

Measurement:

Measurement parameter	
Detector:	Max Peak
Sweep time:	Auto
Video bandwidth:	30 MHz
Resolution bandwidth:	50 MHz
Span:	50 MHz
Trace-Mode:	Max Hold

Result:

DSSS	Maximum Output Power Conducted [dBm]			
	1	2	5.5	11
Data Rate [MBit/s]				
Ch 6 - 2437 MHz	19.38	19.44	19.75	19.97
Measurement uncertainty	± 0.5 dB			

OFDM	Maximum Output Power Conducted [dBm]							
	6	9	12	18	24	36	48	54
Data Rate [MBit/s]								
Ch 6 - 2437 MHz	23.31	23.23	22.89	22.55	21.94	22.04	21.10	21.59
Measurement uncertainty	± 0.5 dB							

Result: Selected data rate for all measurements:

DSSS: 11 MBit/s
OFDM: 6 MBit/s

9.2 Antenna Gain

Measurement:

The antenna gain of the complete system is calculated by the difference of radiated power in EIRP and the conducted power of the module. For normal WLAN devices, the DSSS mode is used.

Measurement parameters:

Measurement parameter	
Detector:	Max Peak
Sweep time:	Auto
Video bandwidth:	30 MHz
Resolution bandwidth:	50 MHz
Span:	50 MHz
Trace-Mode:	Max Hold

Limits:

FCC	IC
CFR Part 15.247 (b)(4)	RSS 210, Issue 7, A 8.4(2)
Antenna Gain	
6 dBi	

Results:

T _{nom}	V _{nom}	lowest channel 2412 MHz	middle channel 2437 MHz	highest channel 2462 MHz
Conducted power [dBm] Measured with DSSS modulation		19.76	19.97	20.17
Radiated power [dBm] Measured with DSSS modulation		20.59	20.80	20.97
Gain [dBi] Calculated		+0.83	+0.83	+0.80

Result: The result of the measurement is passed.

9.3 Power Spectral Density

Description:

Measurement of the power spectral density of a digital modulated system. The measurement is repeated for both modulations at the lowest, middle and highest channel.

Measurement:

Measurement parameter	
Detector:	Peak
Sweep time:	500 s
Video bandwidth:	3 kHz
Resolution bandwidth:	3 kHz
Span:	150 kHz
Trace-Mode:	Max Hold

Limits:

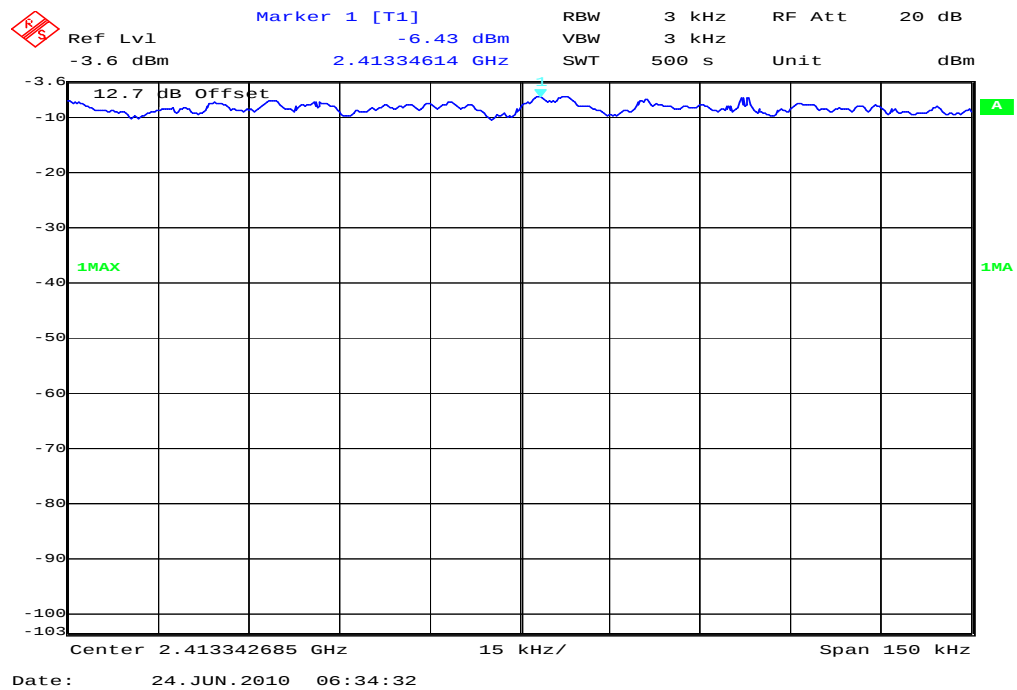
FCC	IC
CFR Part 15.247 (e)	RSS 210, Issue 7, A 8.2(b)
Power Spectral Density	
The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission or over 1.0 second if the transmission exceeds 1.0-second duration.	

Result:

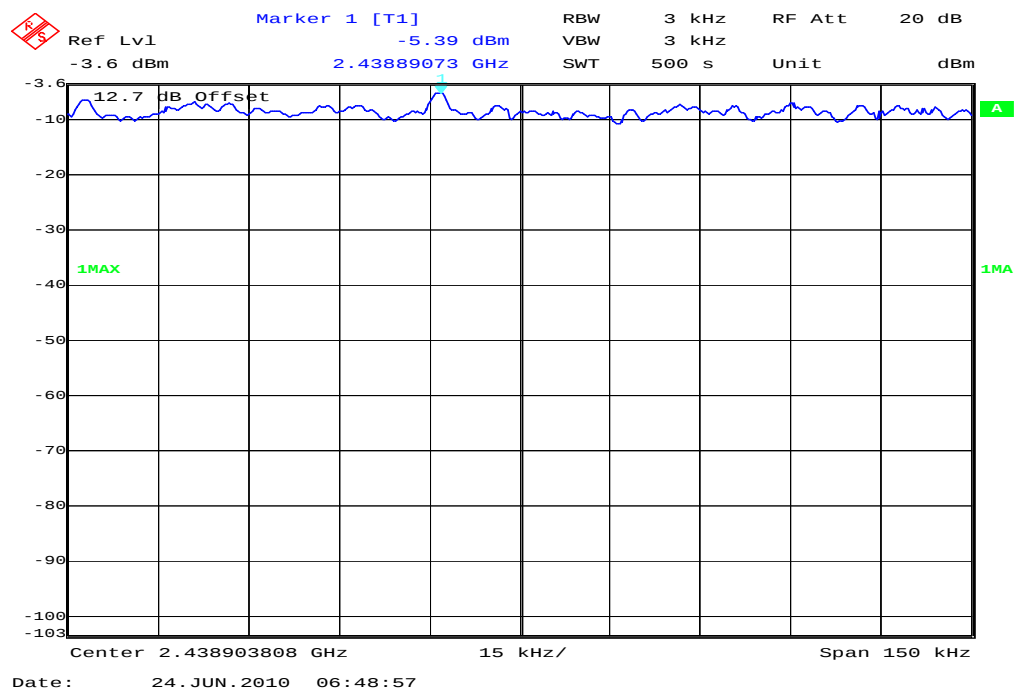
Modulation Frequency	Power Spectral density [dBm/3kHz]		
	2412 MHz	2437 MHz	2462 MHz
DSSS	-6.43	-5.93	-5.33
OFDM	-6.59	-6.94	-6.42
Measurement uncertainty	± 0.5 dB		

Result: The result of the measurement is passed.

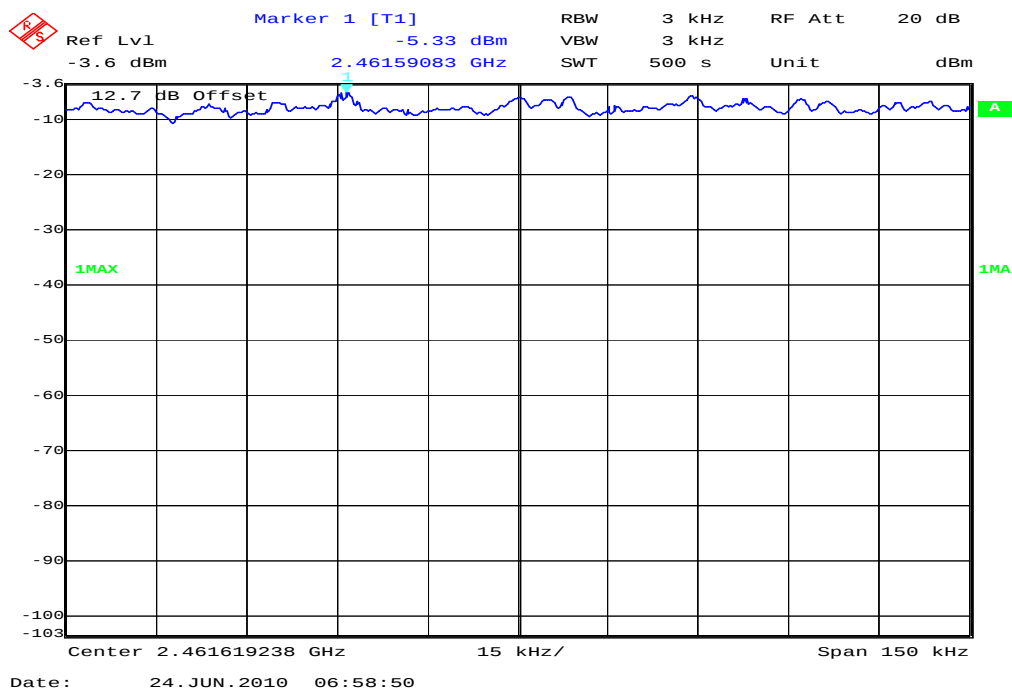
Plot 1: Channel 1 (DSSS)



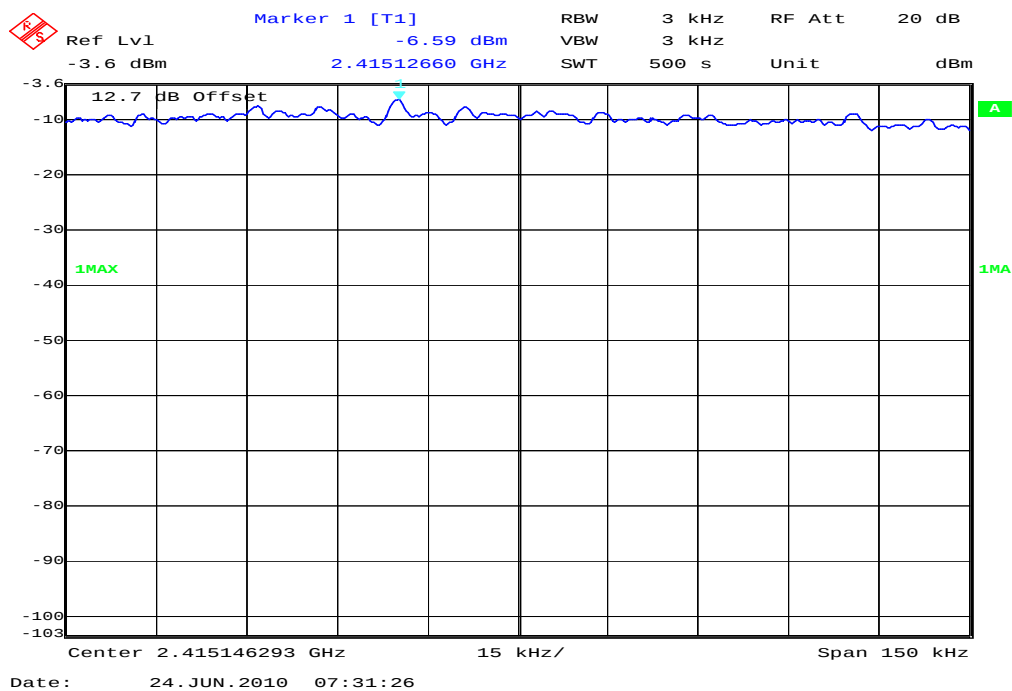
Plot 2: Channel 6 (DSSS)

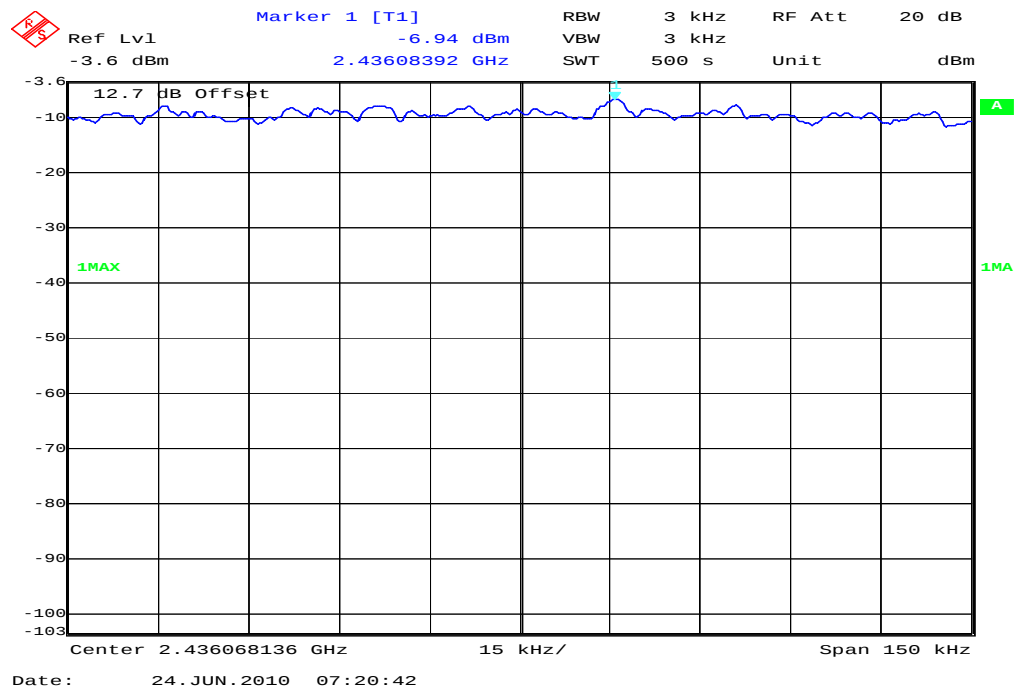
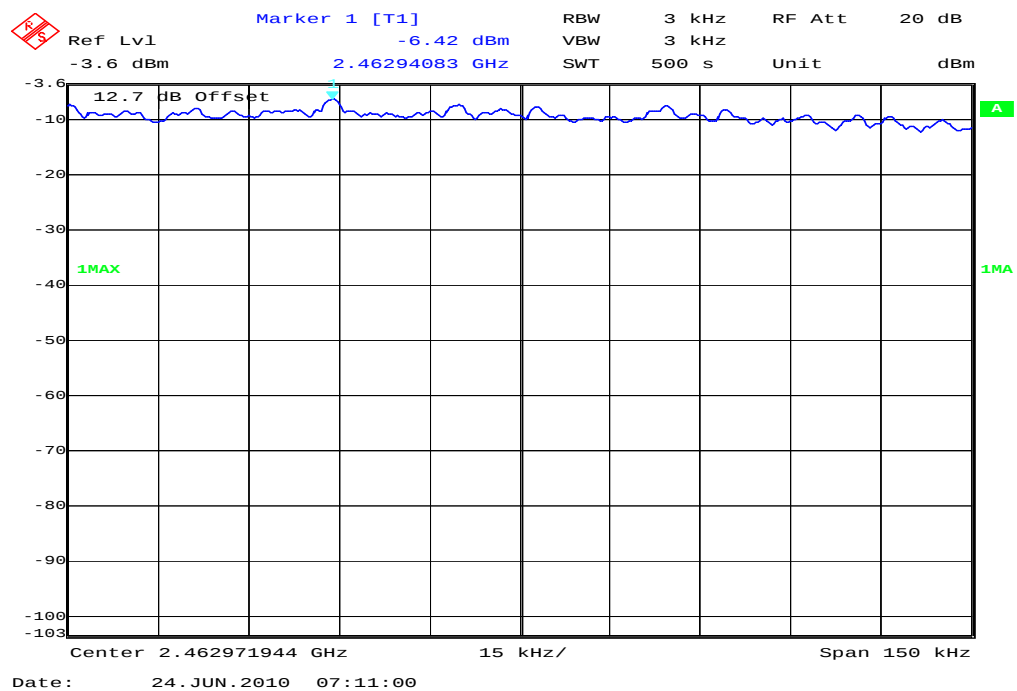


Plot 3: Channel 11 (DSSS)



Plot 4: Channel 1 (OFDM)



Plot 5: Channel 6 (OFDM)**Plot 6: Channel 11 (OFDM)**

9.4 Spectrum Bandwidth of a FHSS System – 6 dB Bandwidth

Description:

Measurement of the 6 dB bandwidth of the modulated signal.

Measurement:

Measurement parameter	
Detector:	Peak
Sweep time:	Auto
Video bandwidth:	100 kHz
Resolution bandwidth:	100 kHz
Span:	25 MHz
Trace-Mode:	Max Hold

Limits:

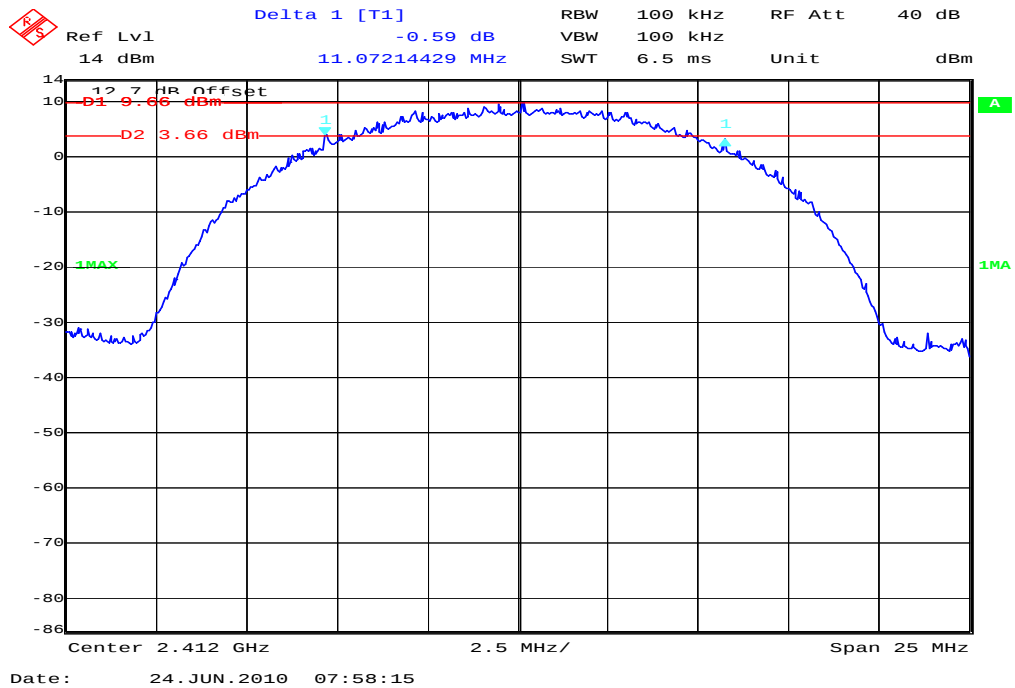
FCC	IC
CFR Part 15.247 (a)(2)	RSS 210, Issue 7, A 8.2(a)
Spectrum Bandwidth of a FHSS System – 6 dB Bandwidth	
Systems using digital modulation techniques may operate in the 2400–2483.5 MHz band. The minimum 6 dB bandwidth shall be at least 500 kHz.	

Result:

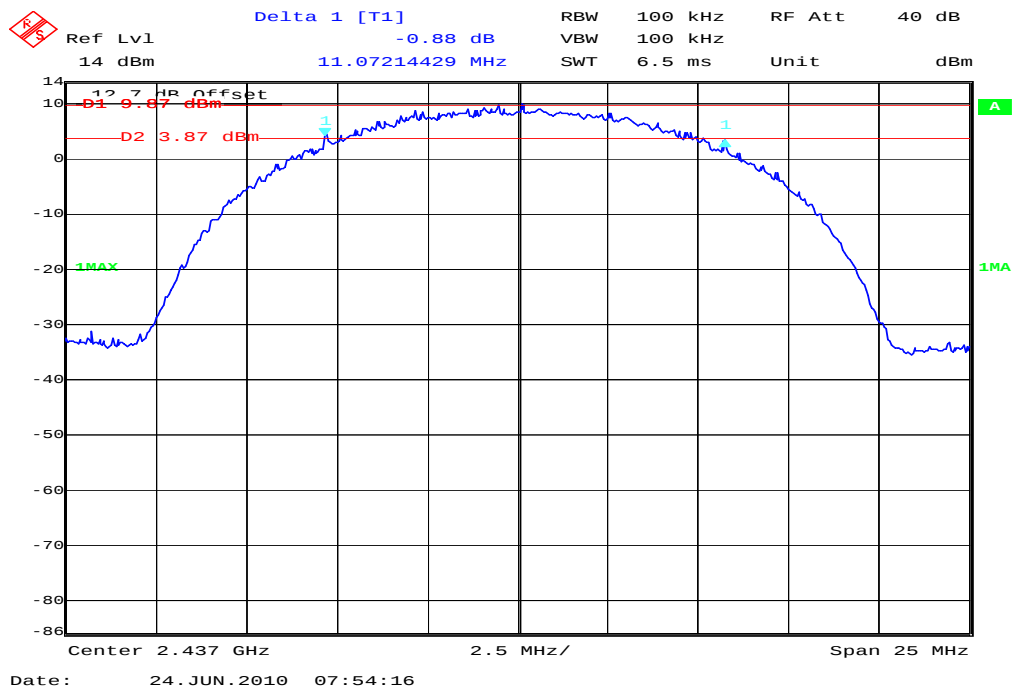
Modulation Frequency	6 dB BANDWIDTH [MHz]		
	2412 MHz	2437 MHz	2462 MHz
DSSS	11.07	11.07	11.07
OFDM	15.93	15.93	16.08
Measurement uncertainty	± 100 kHz		

Result: The result of the measurement is passed.

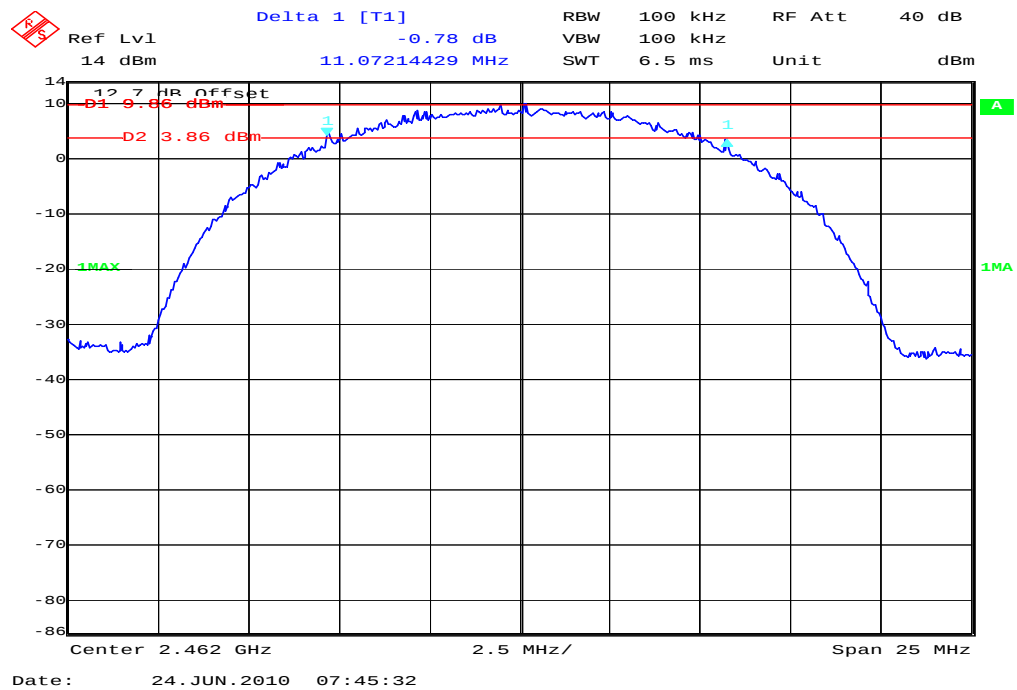
Plot 1: Channel 1 (DSSS)



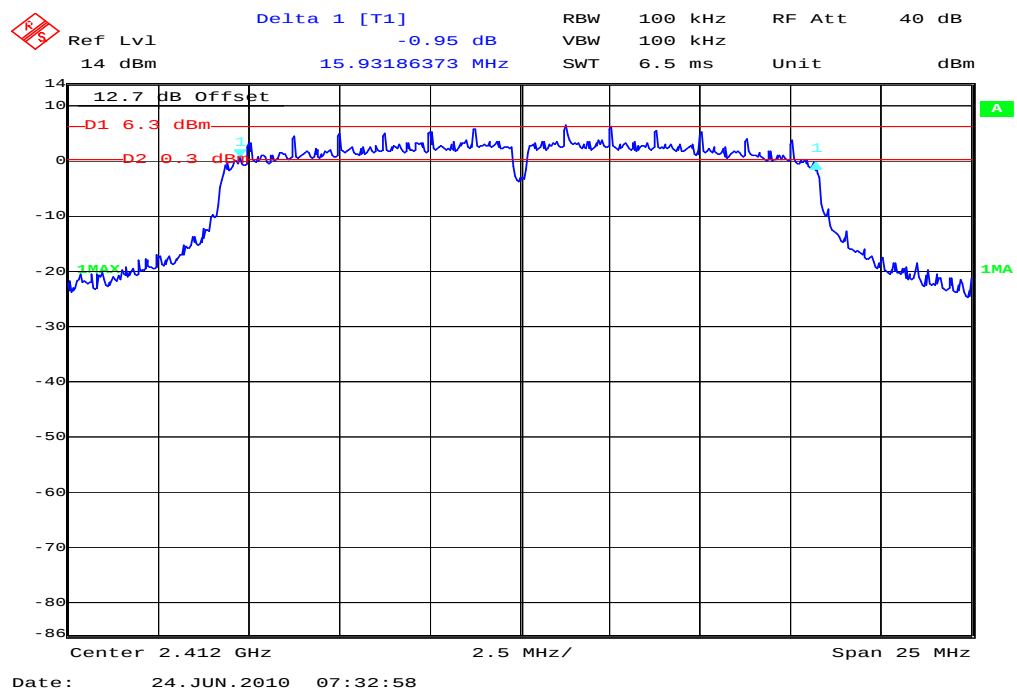
Plot 2: Channel 6 (DSSS)

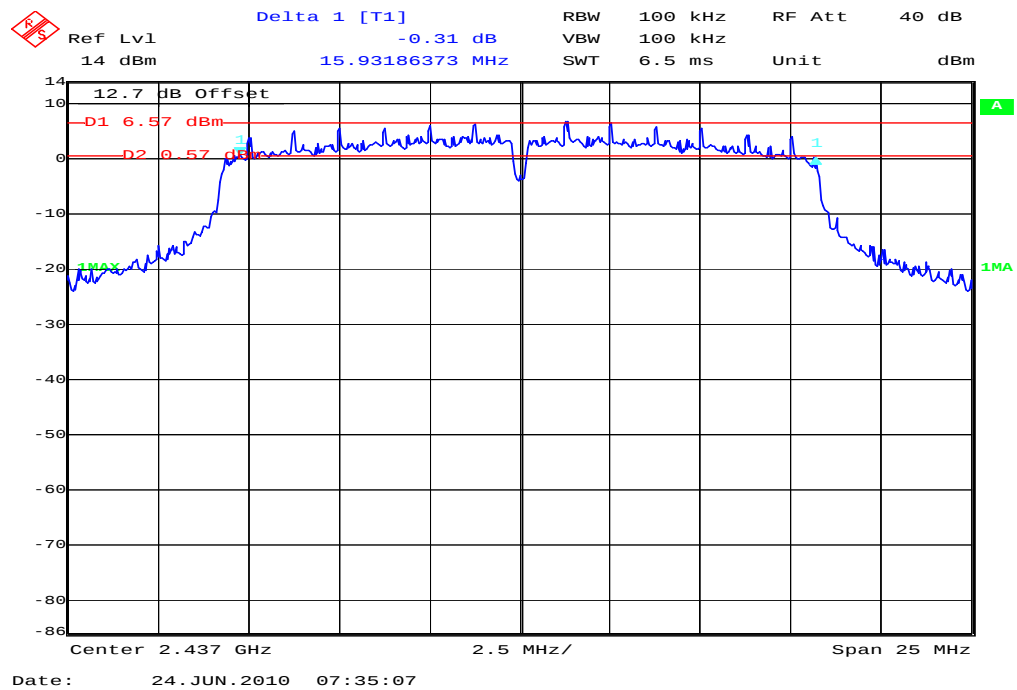
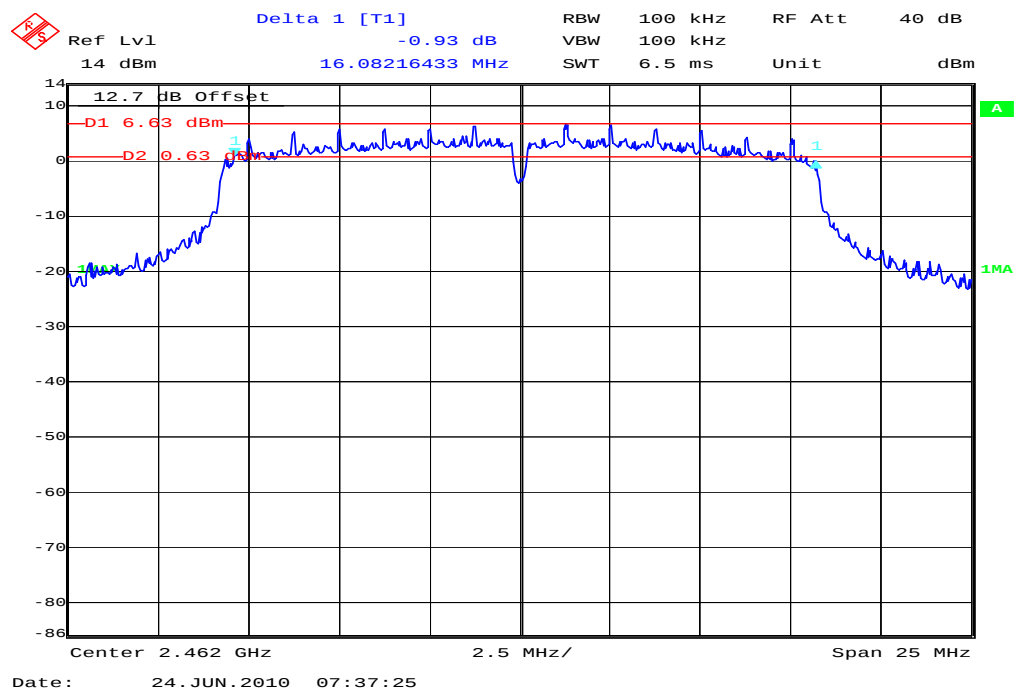


Plot 3: Channel 11 (DSSS)



Plot 4: Channel 1 (OFDM)



Plot 5: Channel 6 (OFDM)**Plot 6: Channel 11 (OFDM)**

9.5 Spectrum Bandwidth of a FHSS System – 20 dB Bandwidth

Description:

Measurement of the 20 dB bandwidth of the modulated signal.

Measurement:

Measurement parameter	
Detector:	Peak
Sweep time:	Auto
Video bandwidth:	100 kHz
Resolution bandwidth:	100 kHz
Span:	25 MHz
Trace-Mode:	Max Hold

Limits:

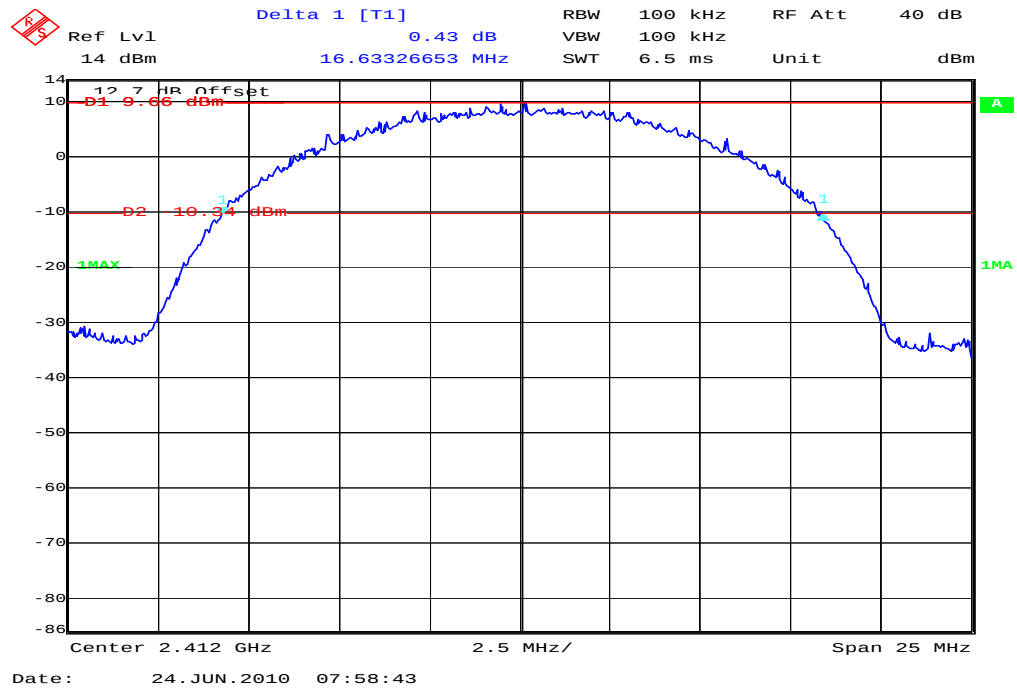
FCC	IC
CFR Part 15.247 (a)(2)	RSS 210, Issue 7, A 8.2(a)
Spectrum Bandwidth of a FHSS System – 20 dB Bandwidth	
Systems using digital modulation techniques may operate in the 2400–2483.5 MHz band. The minimum 6 dB bandwidth shall be at least 500 kHz.	

Result:

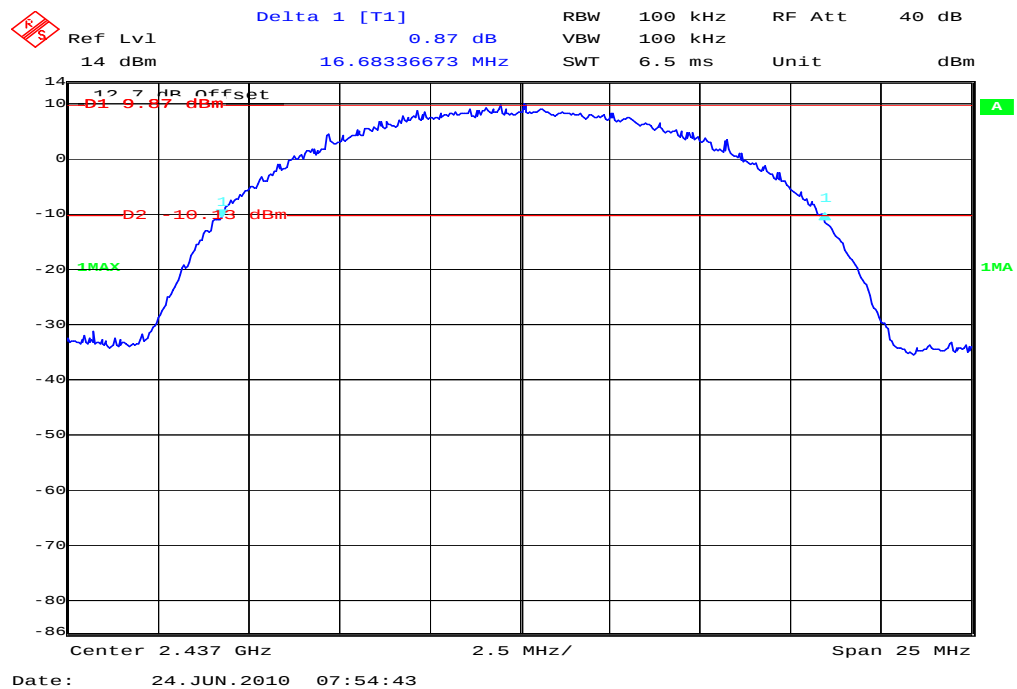
Modulation Frequency	20 dB BANDWIDTH [MHz]		
	2412 MHz	2437 MHz	2462 MHz
DSSS	16.63	16.68	16.68
OFDM	18.09	17.89	18.14
Measurement uncertainty	± 100 kHz		

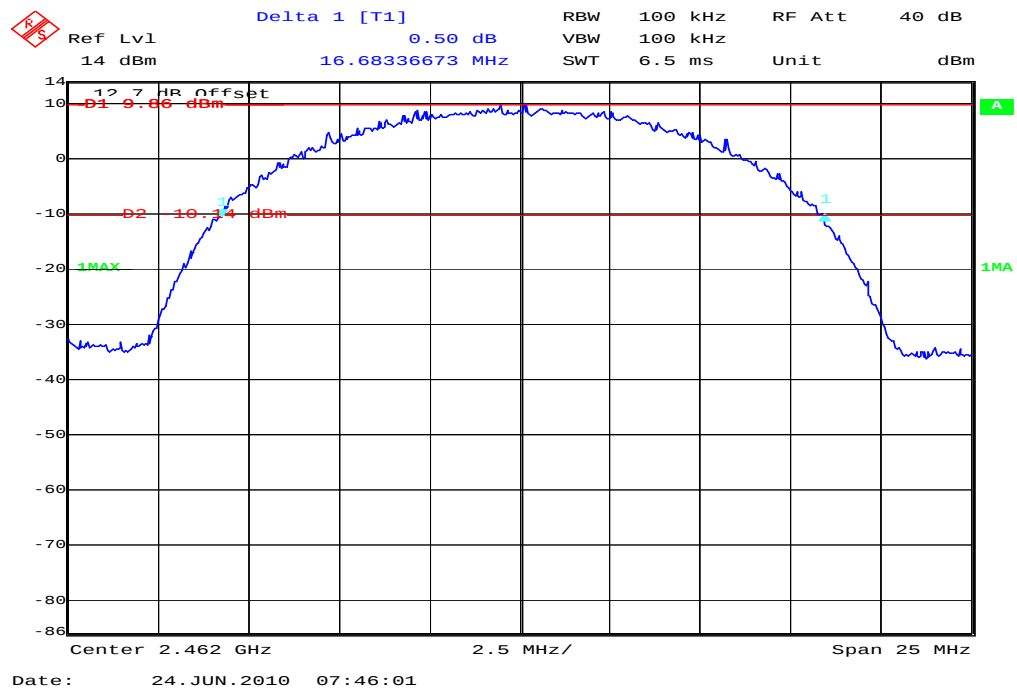
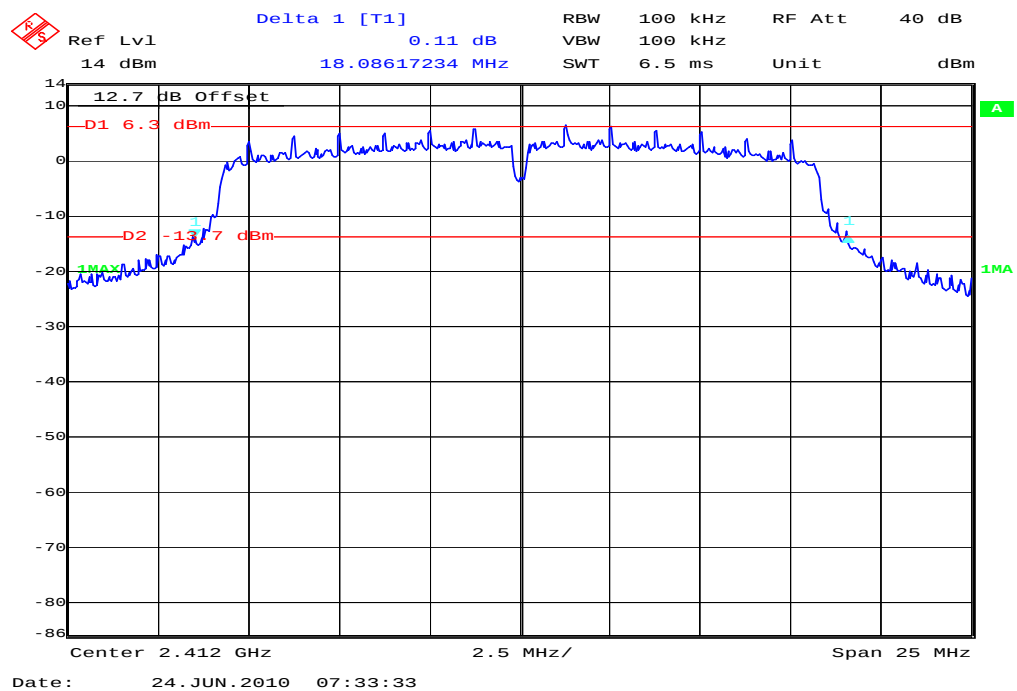
Result: The result of the measurement is passed.

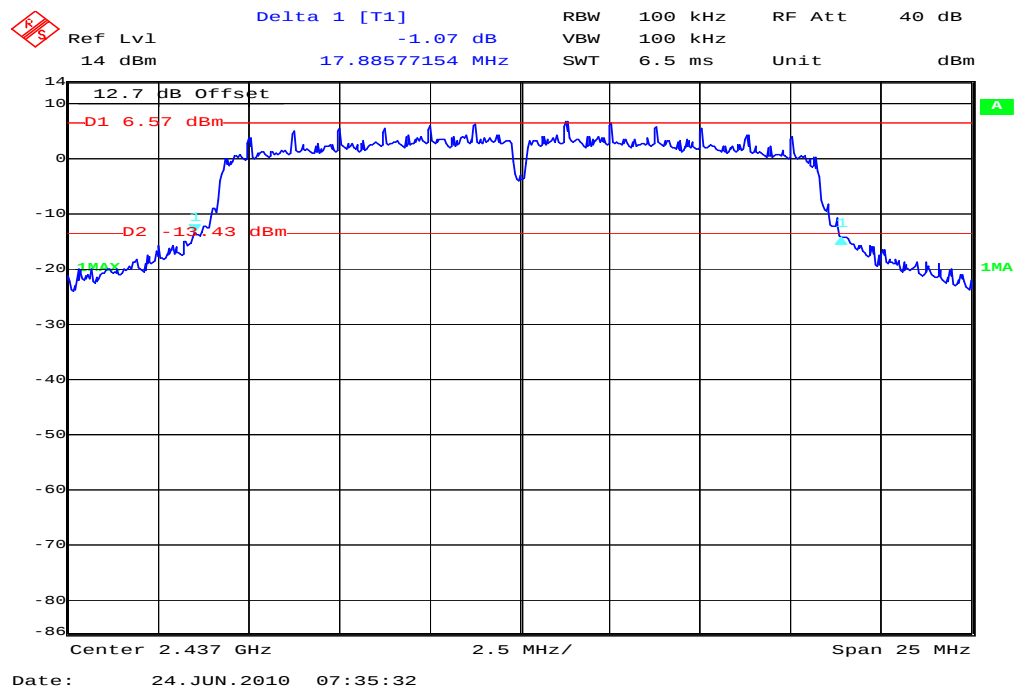
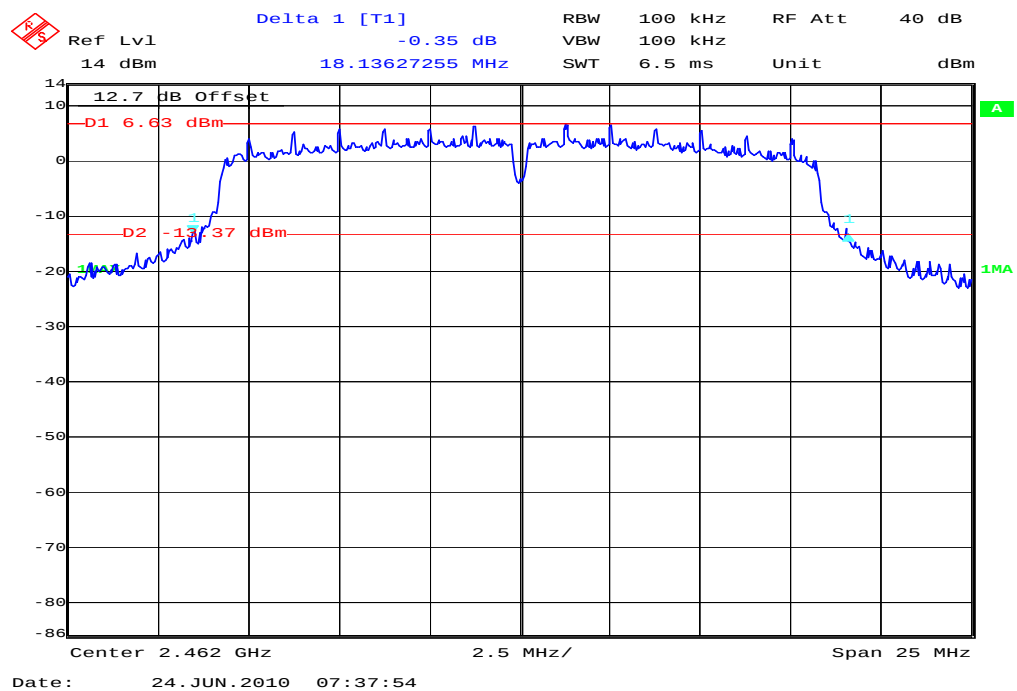
Plot 1: Channel 1 (DSSS)



Plot 2: Channel 6 (DSSS)



Plot 3: Channel 11 (DSSS)**Plot 4: Channel 1 (OFDM)**

Plot 5: Channel 6 (OFDM)**Plot 6: Channel 11 (OFDM)**

9.6 Maximum Output Power

Description:

Measurement of the maximum output power conducted and radiated. The measurements are performed using the data rate producing the highest conducted output power. The determination of these data rates was performed at the beginning of the tests. Additionally the average power is measured using a wideband power meter.

Measurement:

Measurement parameter	
Detector:	Max Peak
Sweep time:	Auto
Video bandwidth:	30 MHz
Resolution bandwidth:	50 MHz
Span:	50 MHz
Trace-Mode:	Max Hold

Limits:

FCC	IC
CFR Part 15.247 (b)(3)	RSS 210, Issue 7, A 8.4(4)
Maximum Output Power	
Conducted: 1.0 W – Antenna Gain max. 6 dBi	

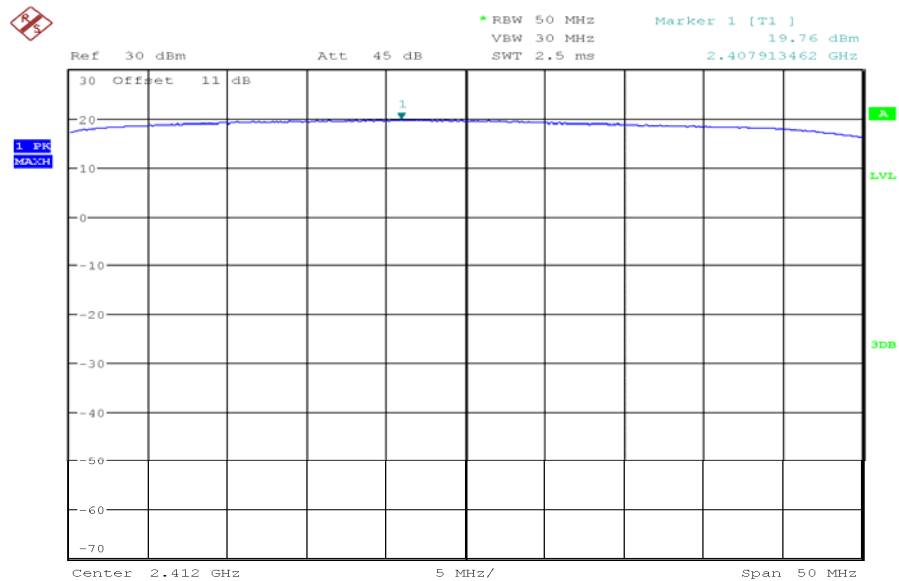
Result:

DSSS Frequency	Maximum Output Power [dBm]		
	2412 MHz	2437 MHz	2462 MHz
Peak Output Power Conducted	19.76	19.97	20.17
Average Output Power Conducted measured with power meter	16.21	16.11	16.51
Output Power Radiated - EIRP	20.59	20.80	20.97
Average Output Power Radiated - EIRP calculated with antenna gain	17.04	16.94	17.31
Measurement uncertainty	± 0.5 dB (cond.) / ± 2 dB (rad.)		

OFDM Frequency	Maximum Output Power [dBm]		
	2412 MHz	2437 MHz	2462 MHz
Peak Output Power Conducted	23.63	23.31	23.10
Average Output Power Conducted measured with power meter	16.06	16.11	16.26
Output Power Radiated - EIRP	24.46	24.14	23.90
Average Output Power Radiated - EIRP calculated with antenna gain	16.89	16.94	17.06
Measurement uncertainty	± 0.5 dB (cond.) / ± 2 dB (rad.)		

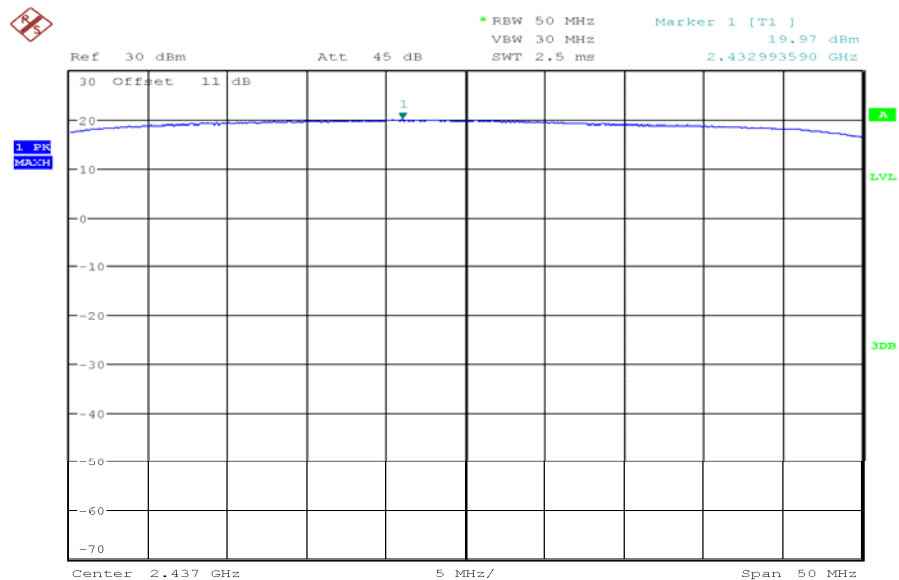
Result: The result of the measurement is passed.

Plot 1: Channel 1 / DSSS (conducted)



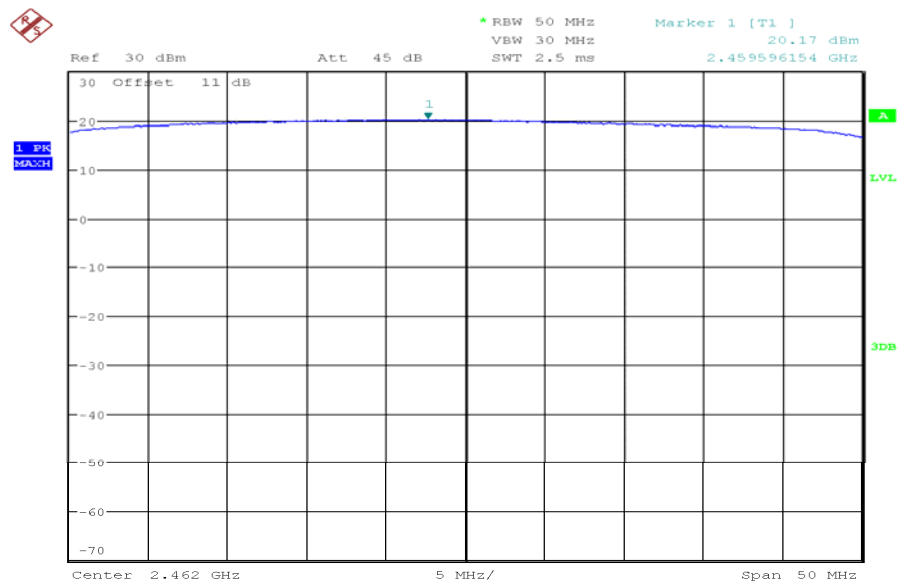
Date: 20.JUL.2010 08:30:22

Plot 2: Channel 6 / DSSS (conducted)



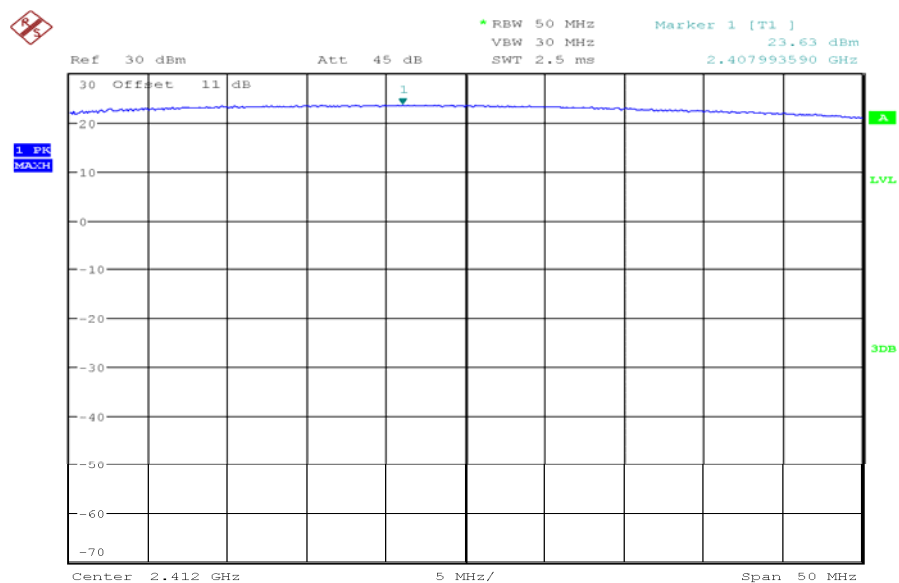
Date: 20.JUL.2010 08:32:52

Plot 3: Channel 11 / DSSS (conducted)



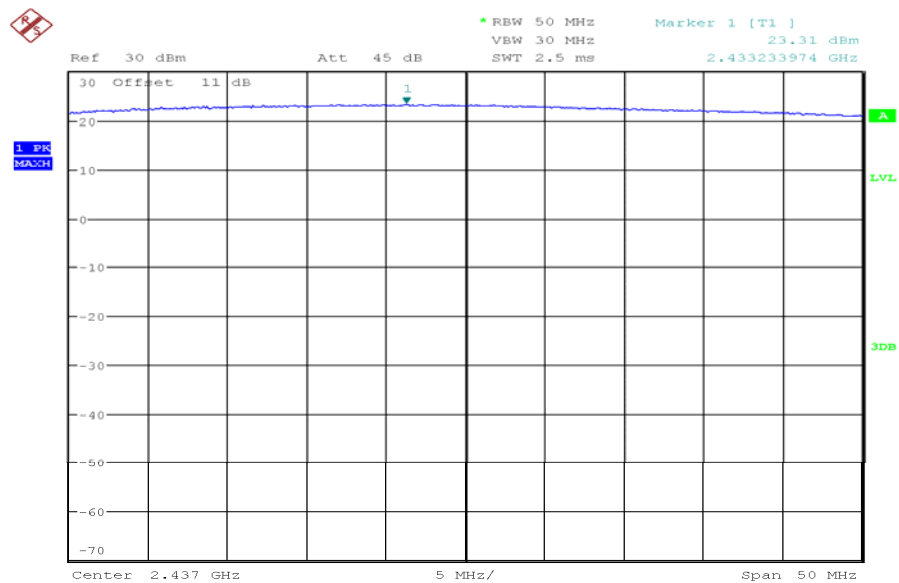
Date: 20.JUL.2010 08:34:00

Plot 4: Channel 1 / OFDM (conducted)



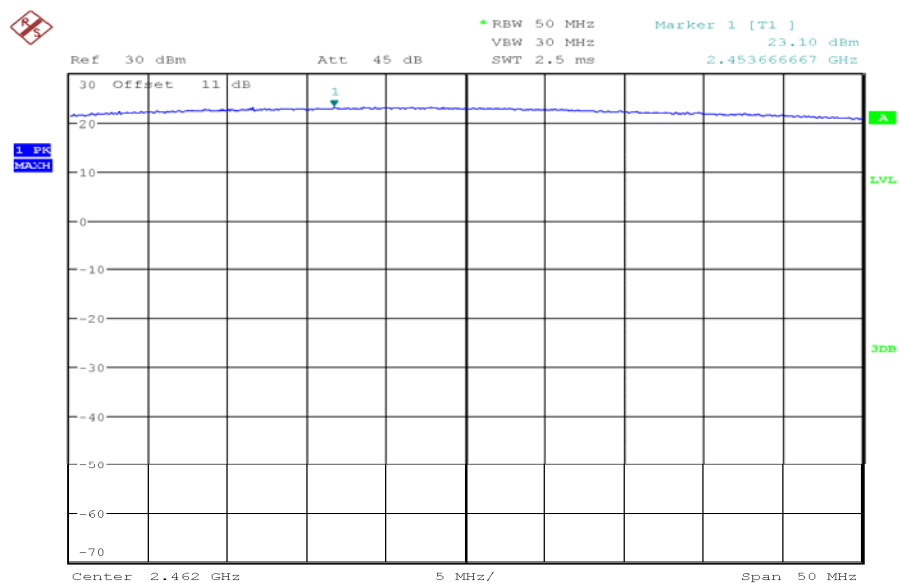
Date: 20.JUL.2010 08:35:05

Plot 5: Channel 6 / OFDM (conducted)



Date: 20.JUL.2010 08:35:59

Plot 6: Channel 11 / OFDM (conducted)



Date: 20.JUL.2010 08:36:58

9.7 Band Edge Compliance Conducted

Description:

Measurement of the conducted band edge compliance. EUT is measured at the lower and upper band edge in both modes.

Measurement:

Measurement parameter	
Detector:	Peak
Sweep time:	Auto
Video bandwidth:	100 kHz
Resolution bandwidth:	100 kHz
Span:	Lower Band Edge: 2380 – 2430 MHz Upper Band Edge: 2450 – 2500 MHz
Trace-Mode:	Max Hold

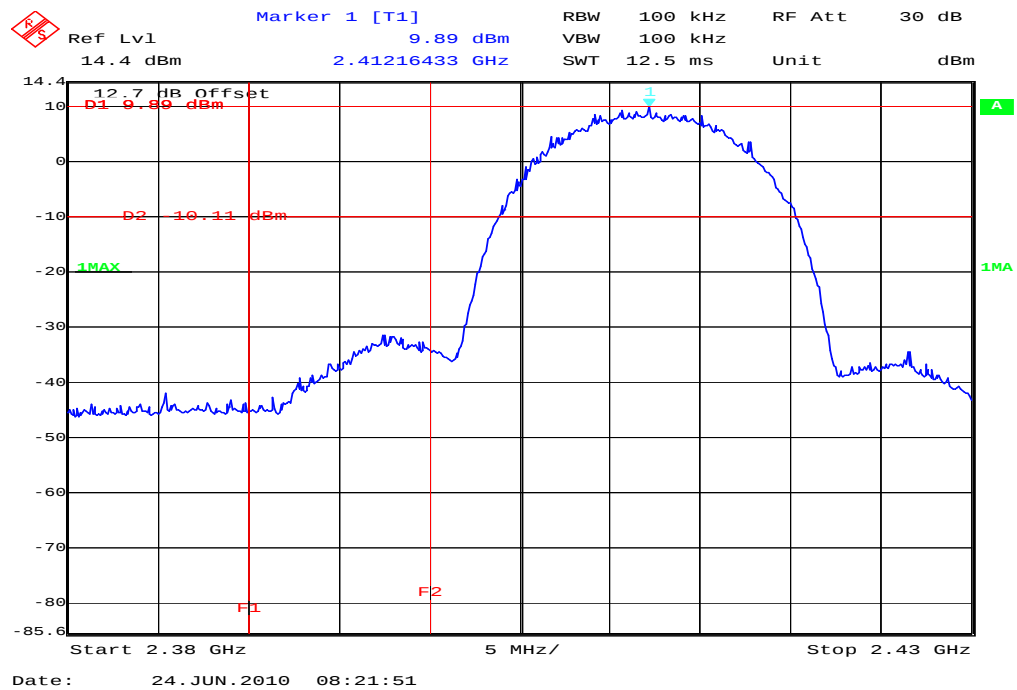
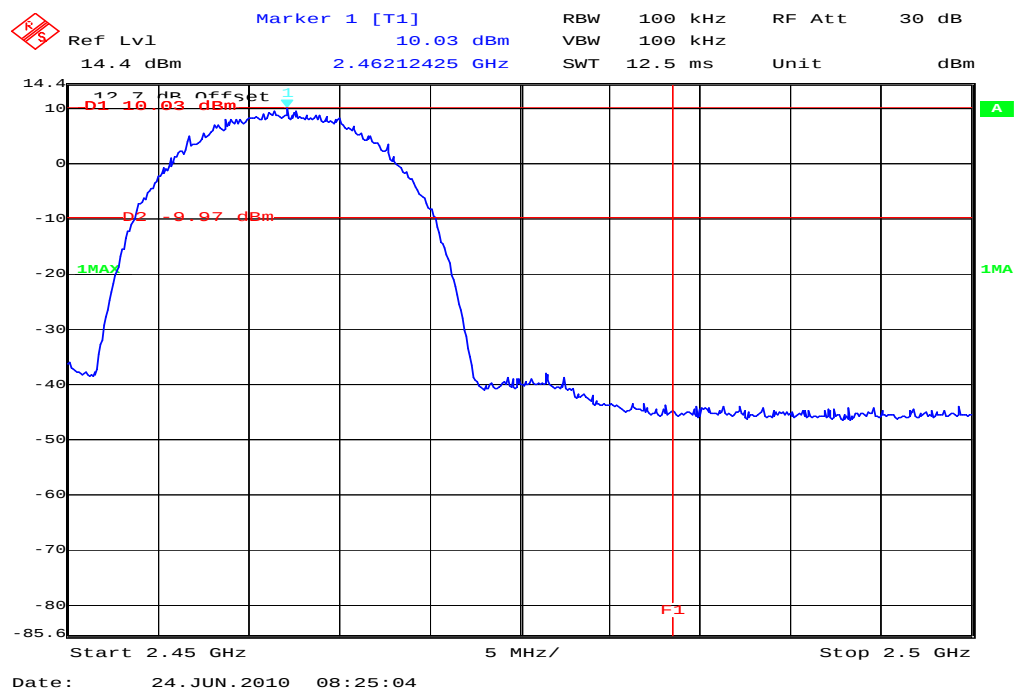
Limits:

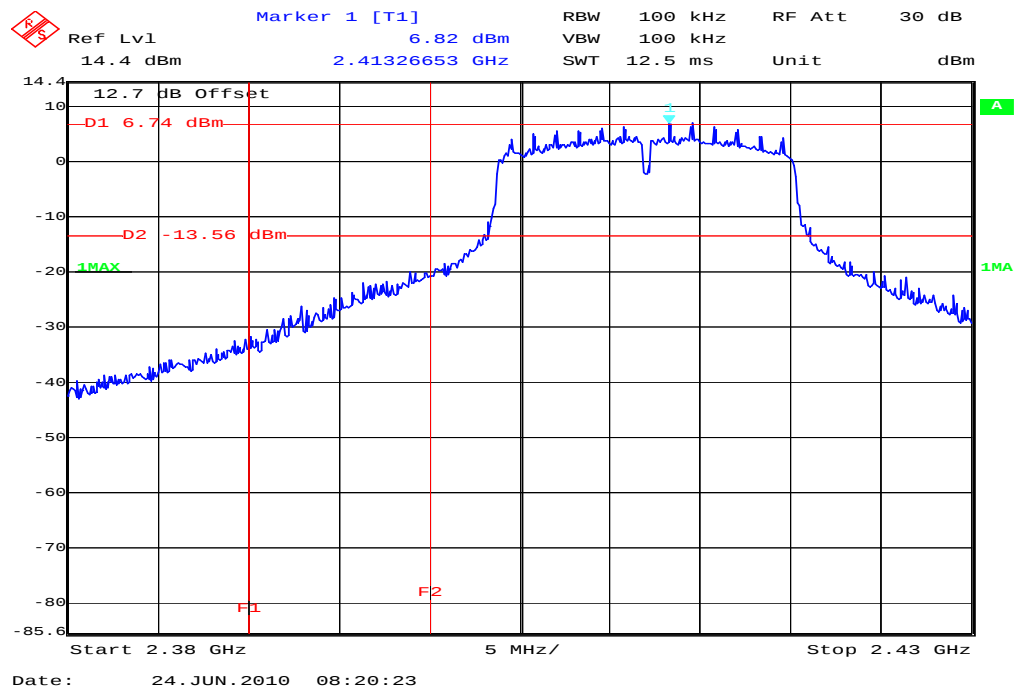
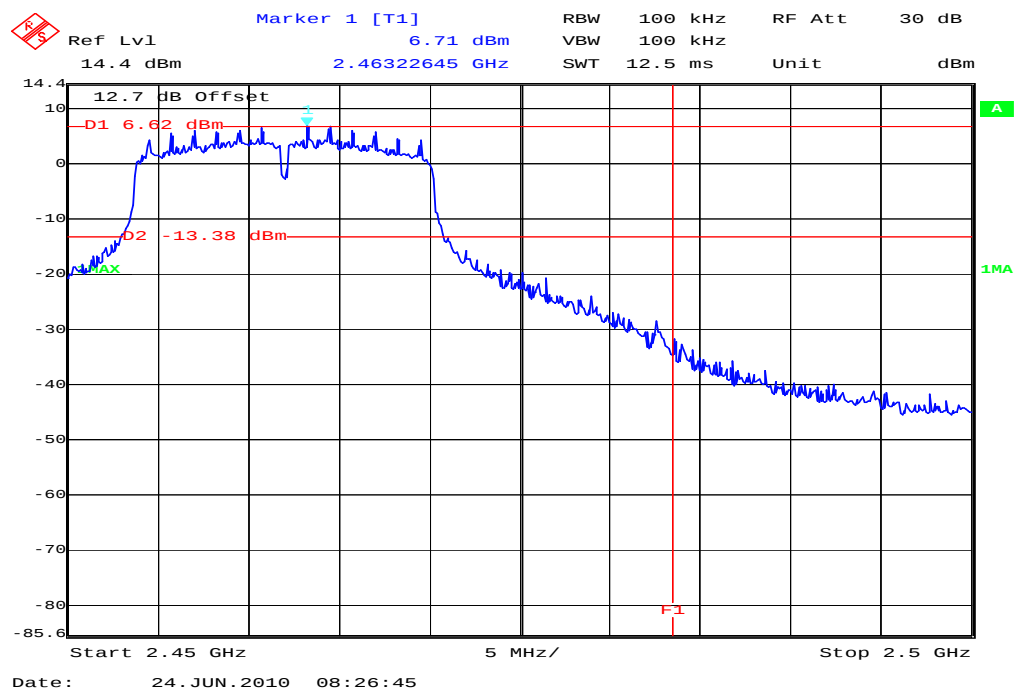
FCC	IC
CFR Part 15.247 (d)	RSS 210, Issue 7, A 8.5
Band Edge Compliance Conducted	
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be 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.	

Result:

Szenario Modulation	Band Edge Compliance Conducted [dB]	
	DSSS	OFDM
Lower Band Edge – Channel 1	> 20 dB (see plot 1)	> 20 dB (see plot 3)
Upper Band Edge – Channel 11	> 20 dB (see plot 2)	> 20 dB (see plot 4)
Measurement uncertainty	± 1.5 dB	

Result: The result of the measurement is passed.

Plot 1: Lower Band Edge – DSSS (conducted)**Plot 2: Upper Band Edge – DSSS (conducted)**

Plot 3: Lower Band Edge – OFDM (conducted)**Plot 4: Upper Band Edge – OFDM (conducted)**

9.8 Band Edge Compliance Radiated

Description:

Measurement of the radiated band edge compliance. The EUT is turned in the position that results in the maximum level at the band edge. Then a sweep over the corresponding restricted band is performed. The EUT is set to channel 1 for the lower restricted band and to channel 11 for the upper restricted band. The measurement is repeated for all modulations. Measurement distance is 3m.

Measurement:

Measurement parameter	
Detector:	Peak
Sweep time:	Auto
Video bandwidth:	10 Hz
Resolution bandwidth:	1 MHz
Span:	Lower Band: 2300 – 2400 MHz higher Band: 2480 – 2500 MHz
Trace-Mode:	Max Hold

Limits:

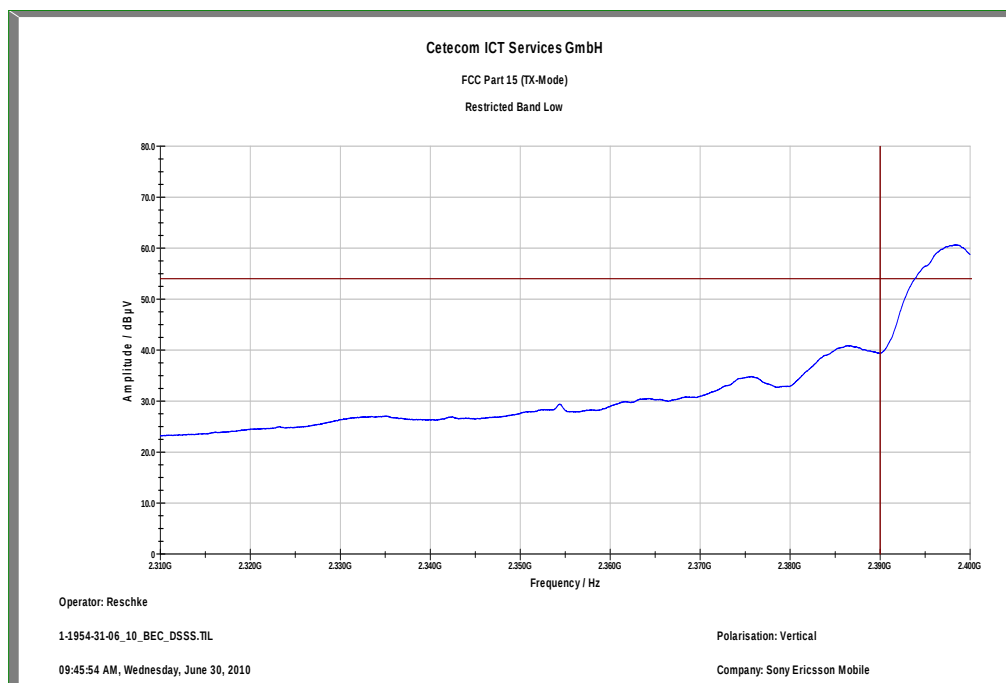
FCC	IC
CFR Part 15.205	RSS 210, Issue 7, A 8.5
Band Edge Compliance Radiated	
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 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)).	
54 dBμV/m AVG	

Result:

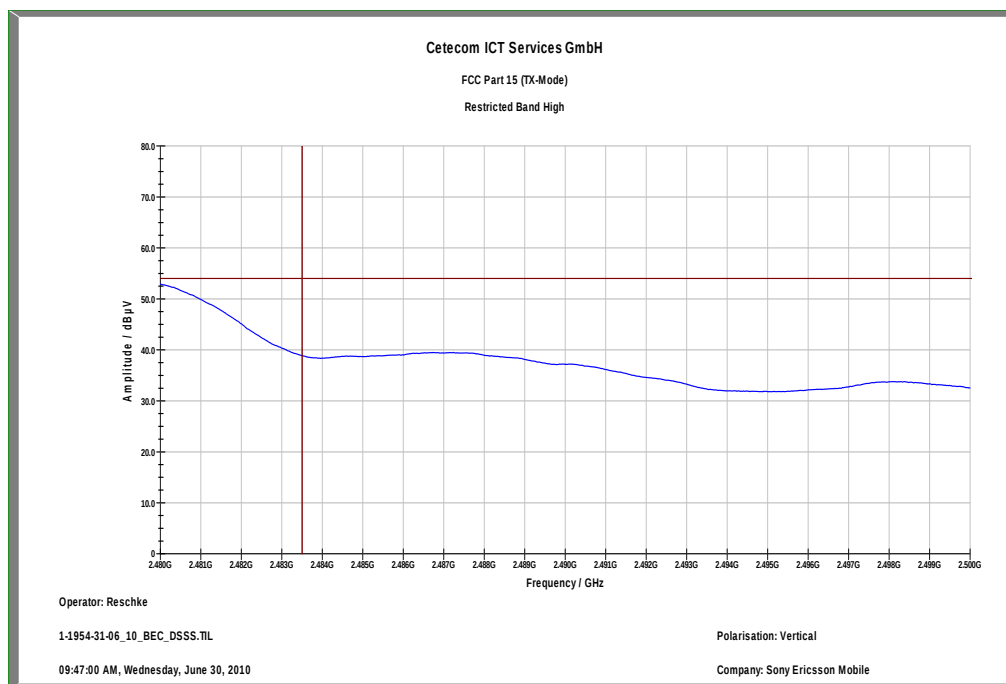
Szenario Modulation	Band Edge Compliance Radiated [dBμV/m]	
	DSSS	OFDM
Lower Band Edge – Channel 1	< 54 dBμV/m (see plot 1)	< 54 dBμV/m (see plot 3)
Upper Band Edge – Channel 11	< 54 dBμV/m (see plot 2)	< 54 dBμV/m (see plot 4)
Measurement uncertainty	± 3 dB	

Result: The result of the measurement is passed.

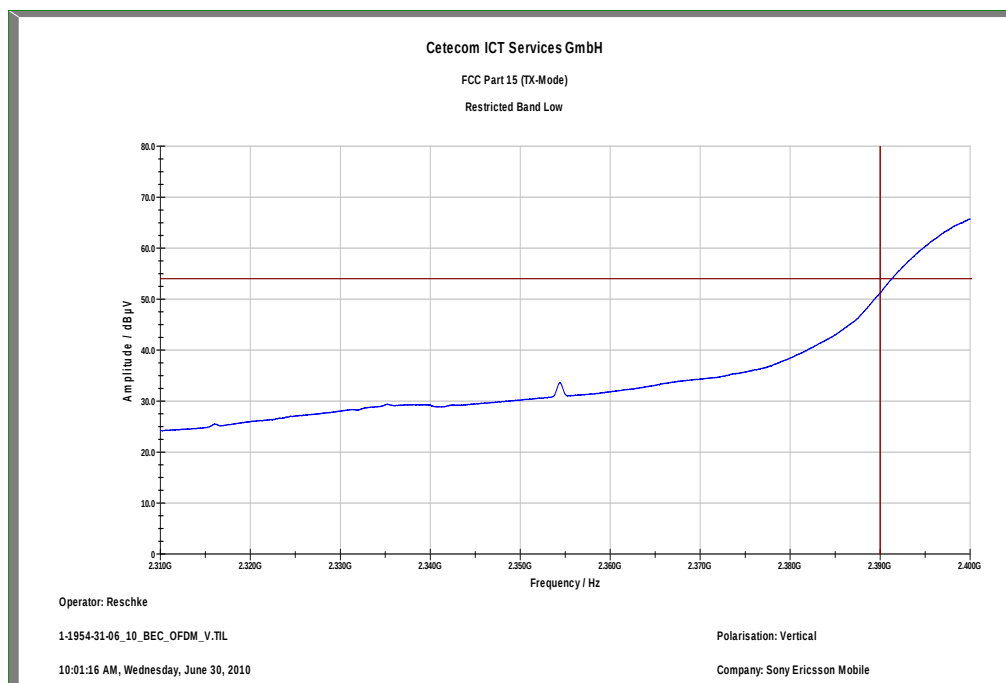
Plot 1: Lower Band Edge – DSSS (radiated)



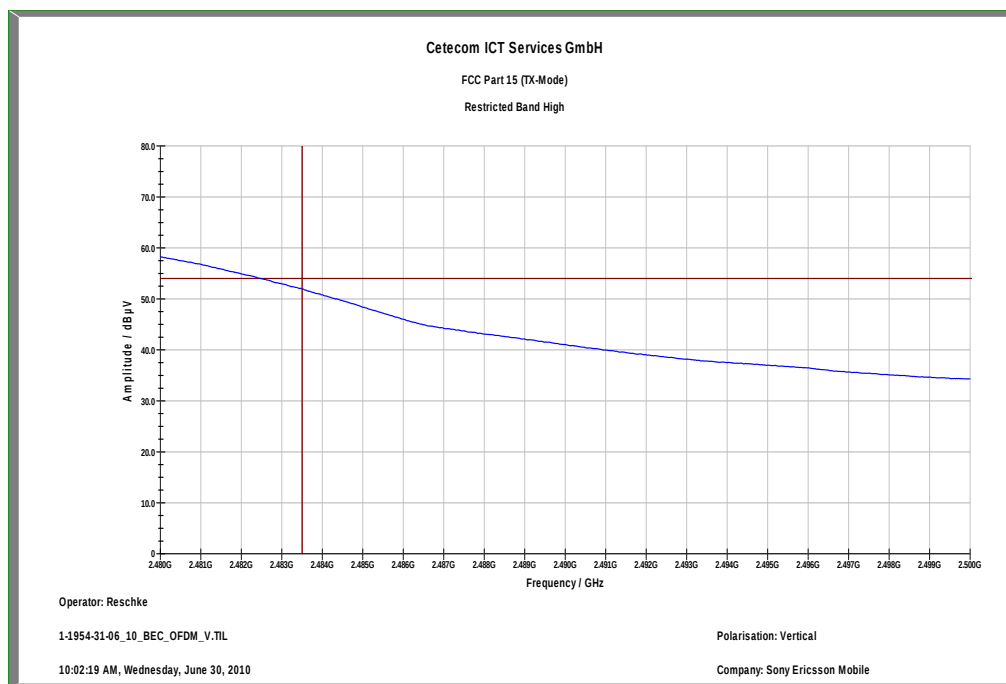
Plot 2: Upper Band Edge – DSSS (radiated)



Plot 3: Lower Band Edge – OFDM (radiated)



Plot 4: Upper Band Edge – OFDM (radiated)



9.9 TX Spurious Emissions Conducted

Description:

Measurement of the conducted spurious emissions in transmit mode. The measurement is performed at channel 1, 6 and 11. The measurement is repeated for all modulations.

Measurement:

Measurement parameter	
Detector:	Peak
Sweep time:	Auto
Video bandwidth:	Pre-measurement with 100 kHz On Peak Detection F < 1 GHz: 100 kHz F > 1 GHz: 1 MHz
Resolution bandwidth:	Pre-measurement with 100 kHz On Peak Detection F < 1 GHz: 100 kHz F > 1 GHz: 1 MHz
Span:	9 kHz to 25 GHz
Trace-Mode:	Max Hold

Limits:

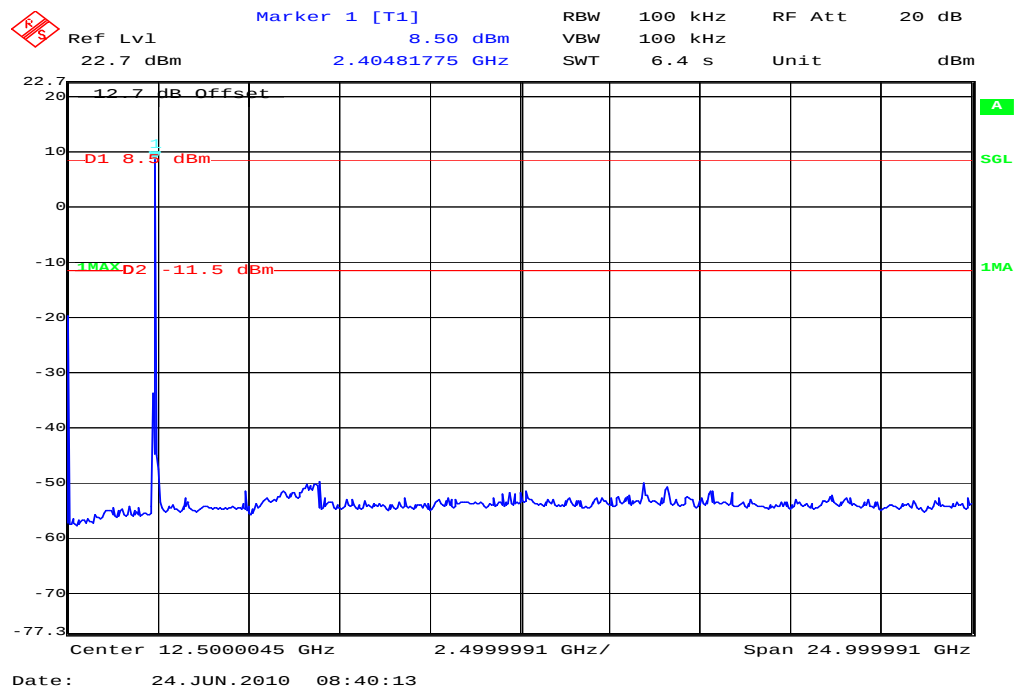
FCC	IC
CFR Part 15.247(d)	RSS 210, Issue 7, A 8.5
TX Spurious Emissions Conducted	
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be 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	

Result: Also see plots

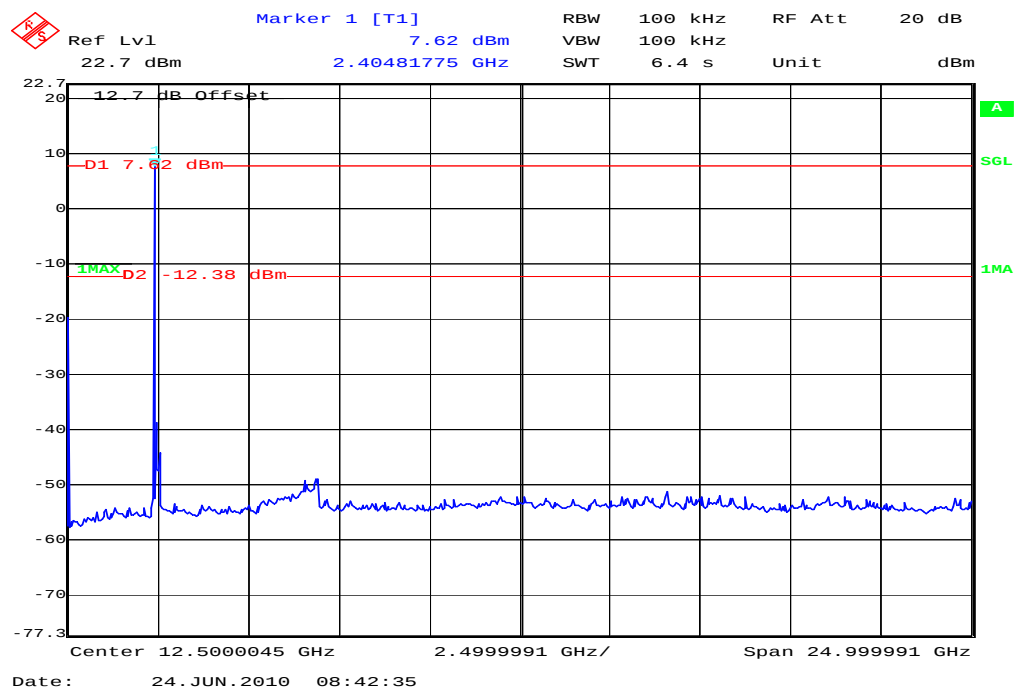
TX Spurious Emissions Conducted					
DSSS - mode					
f [MHz]		amplitude of emission [dBm]	limit max. allowed emission power	actual attenuation below frequency of operation [dB]	results
2412		8.50	30 dBm		Operating frequency
No critical peaks found			-20 dBc		complies
2437		7.62	30 dBm		Operating frequency
No critical peaks found			-20 dBc		complies
2462		7.58	30 dBm		Operating frequency
No critical peaks found			-20 dBc		complies
Measurement uncertainty		± 3 dB			

TX Spurious Emissions Conducted					
OFDM - mode					
f [MHz]		amplitude of emission [dBm]	limit max. allowed emission power	actual attenuation below frequency of operation [dB]	results
2412		5.23	30 dBm		Operating frequency
No critical peaks found			-20 dBc		complies
2437		6.60	30 dBm		Operating frequency
No critical peaks found			-20 dBc		complies
2462		5.58	30 dBm		Operating frequency
No critical peaks found			-20 dBc		complies
Measurement uncertainty		± 3 dB			

Result: The result of the measurement is passed.

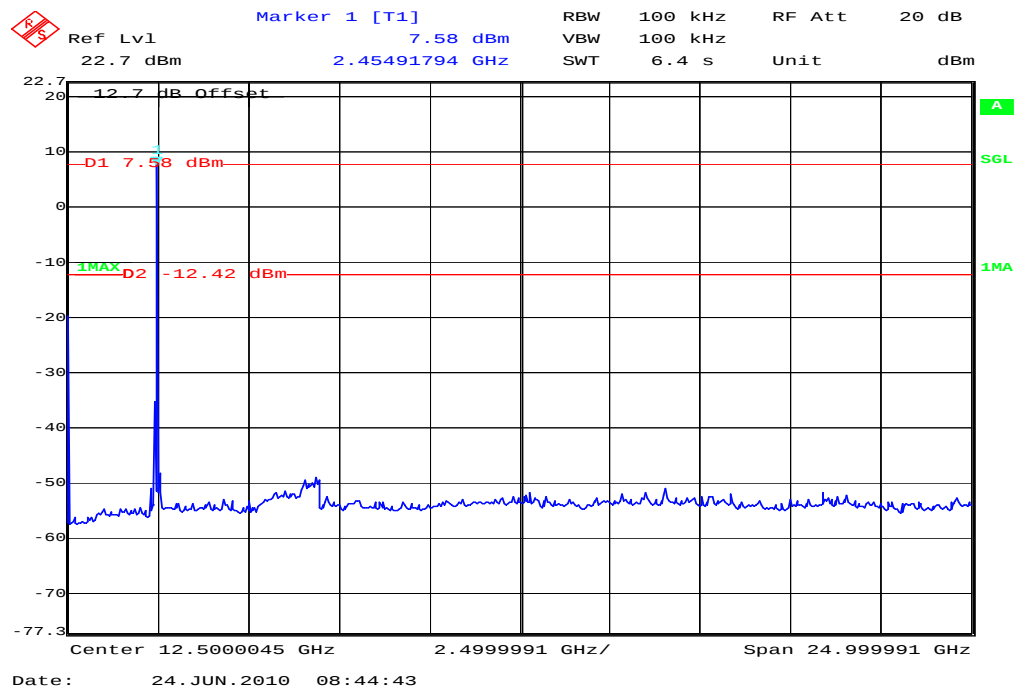
Plot 1: Channel 1 / DSSS

The peak at the beginning of the plot is the LO from the SA

Plot 2: Channel 6 / DSSS

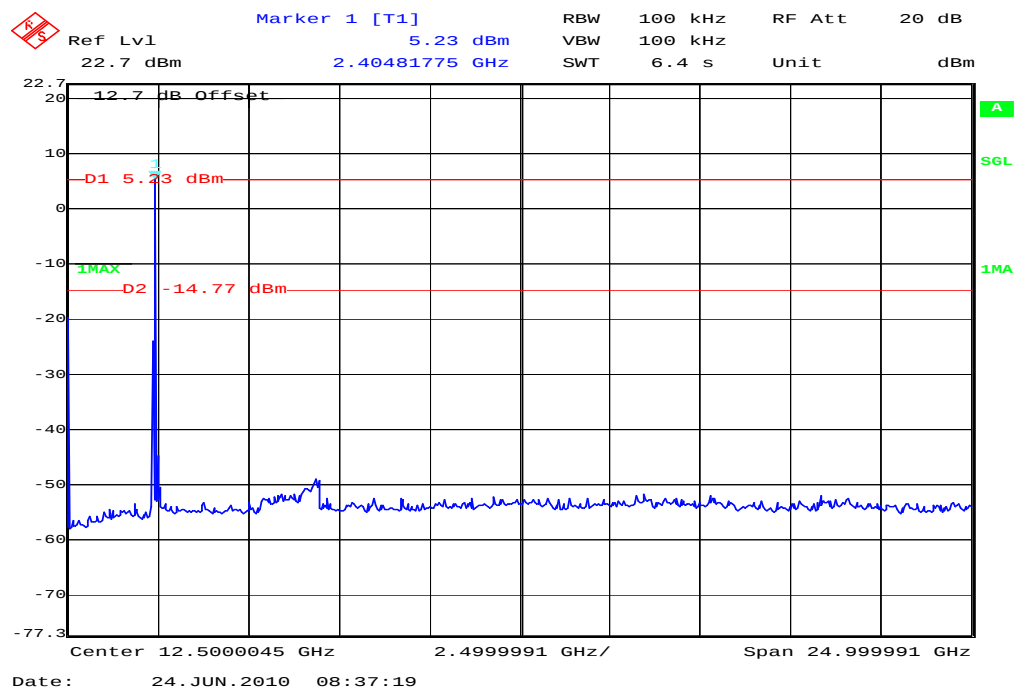
The peak at the beginning of the plot is the LO from the SA

Plot 3: Channel 11 / DSSS



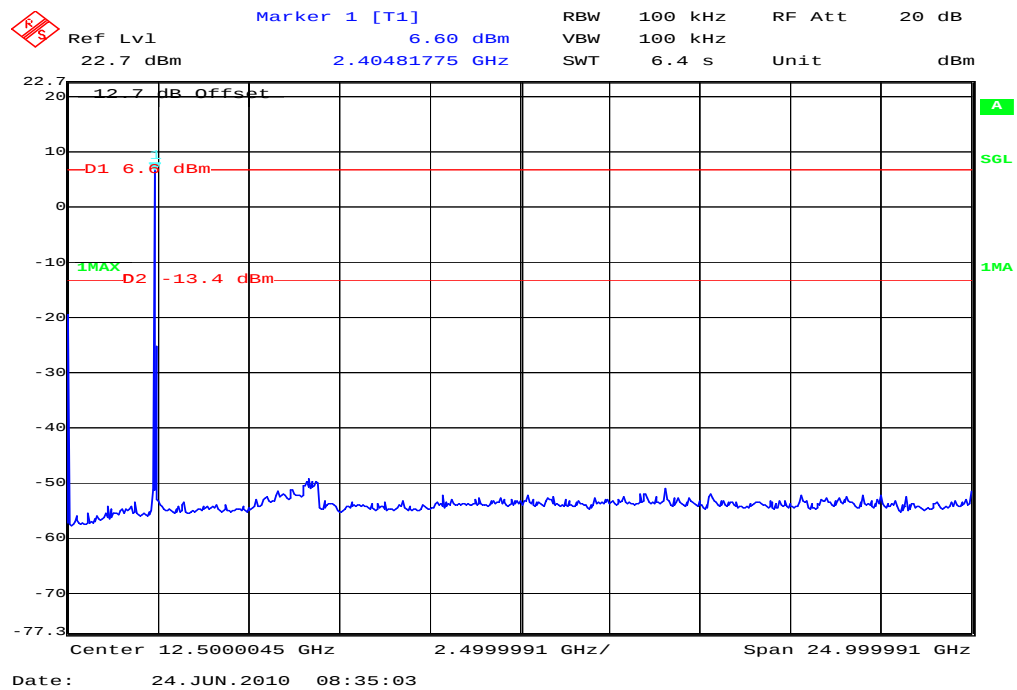
The peak at the beginning of the plot is the LO from the SA

Plot 4: Channel 1 / OFDM



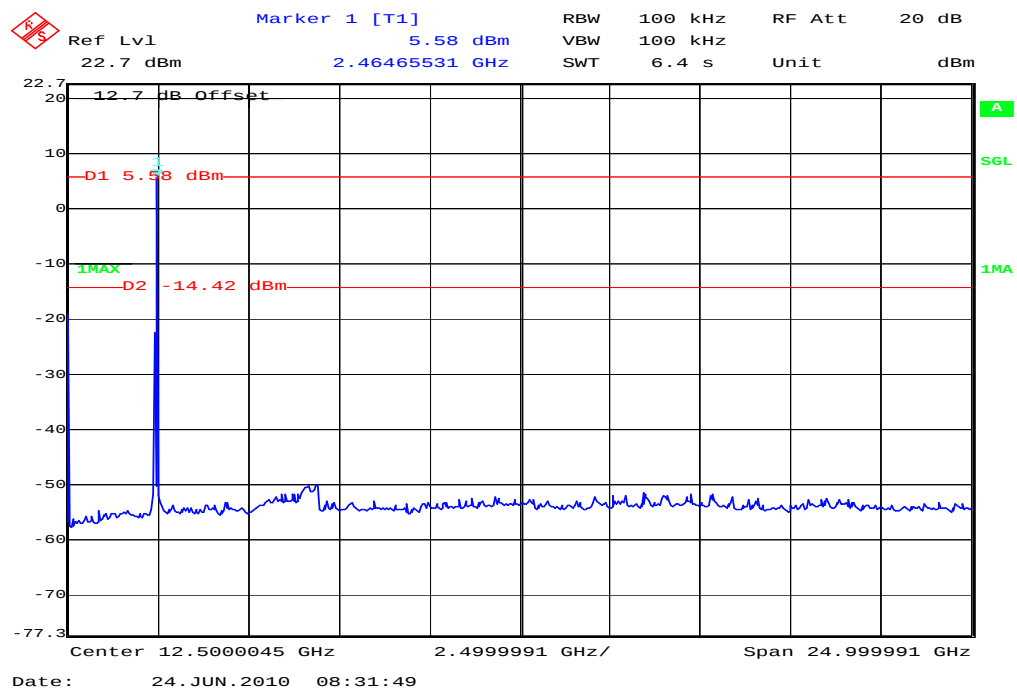
The peak at the beginning of the plot is the LO from the SA

Plot 5: Channel 6 / OFDM



The peak at the beginning of the plot is the LO from the SA

Plot 6: Channel 11 / OFDM



The peak at the beginning of the plot is the LO from the SA

9.10 TX Spurious Emissions Radiated

Description:

Measurement of the radiated spurious emissions in transmit mode. The measurement is performed at channel 1, 6 and 11. The measurement is repeated for all modulations.

The spurious were done in vertical and horizontal polarisation and for both modulations. No differences could be detected between the modes and polarisation. Due to this, the plots below are valid for both modes and both polarisations.

Measurement:

Measurement parameter	
Detector:	Peak / Quasi Peak
Sweep time:	Auto
Video bandwidth:	Sweep: 100 kHz Re-measurement: 10 Hz
Resolution bandwidth:	F < 1 GHz: 100 kHz F > 1 GHz: 1 MHz
Span:	30 MHz to 25 GHz
Trace-Mode:	Max Hold

Limits:

FCC	IC	
CFR Part 15.247(d)	RSS 210, Issue 7, A 8.5	
TX Spurious Emissions Radiated		
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 §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).		
§15.209		
Frequency (MHz)	Field Strength (dBµV/m)	Measurement distance
30 - 88	30.0	10
88 – 216	33.5	10
216 – 960	36.0	10
Above 960	54.0	3

Result: Also see plots

TX Spurious Emissions Radiated [dB μ V/m]								
DSSS - mode								
2412 MHz			2437 MHz			2462 MHz		
F [MHz]	Detector	Level [dB μ V/m]	F [MHz]	Detector	Level [dB μ V/m]	F [MHz]	Detector	Level [dB μ V/m]
No critical peaks found			No critical peaks found			No critical peaks found		
Measurement uncertainty			± 3 dB					

TX Spurious Emissions Radiated [dB μ V/m]								
OFDM - mode								
2412 MHz			2437 MHz			2462 MHz		
F [MHz]	Detector	Level [dB μ V/m]	F [MHz]	Detector	Level [dB μ V/m]	F [MHz]	Detector	Level [dB μ V/m]
No critical peaks found			No critical peaks found			No critical peaks found		
Measurement uncertainty			± 3 dB					

Result: The result of the measurement is passed.

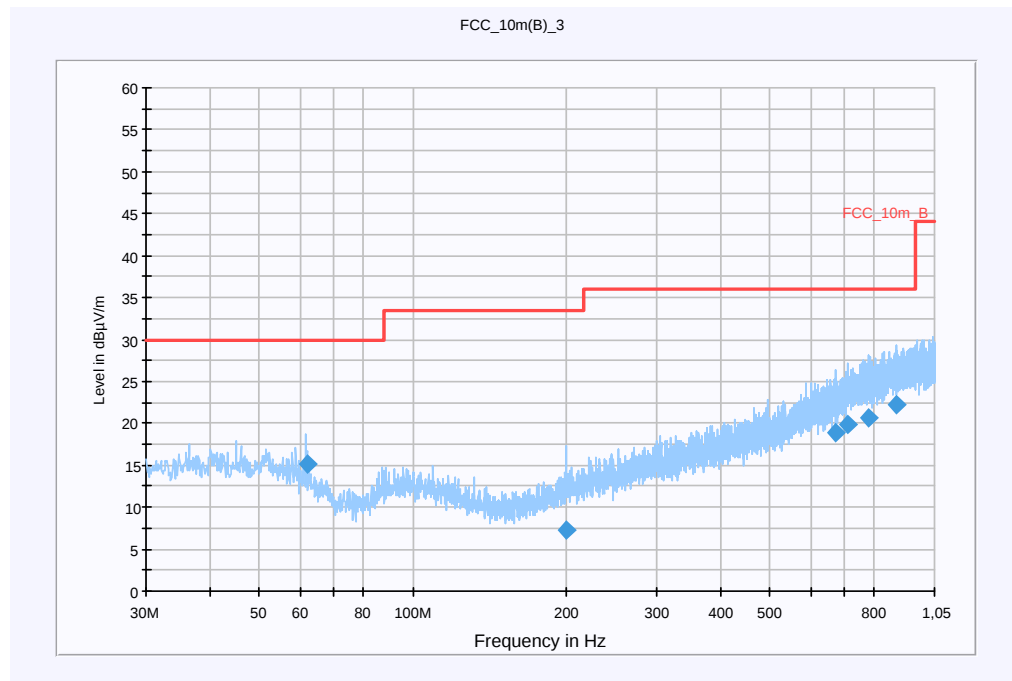
Plot 1: 30 MHz to 1 GHz / Channel 1 - OFDM (horizontal/vertical)**Common Information**

EUT: AAD-3880091-BV + EP800
 Serial Number: IMEI:00440214-072199-8 + 1109w50400488
 Test Description: FCC part 15 C Class B @ 10m
 Operating Conditions: WiFi Testmode: continuous Tx random pattern, 6 MBit/s, CH:1
 Operator Name: LNG
 Comment: Power: 115 V/ 60 Hz

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup: Electric Field (NOS)
 Level Unit: dB μ V/m

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30 MHz - 1,05 GHz	QuasiPeak	120 kHz	15 s	Receiver

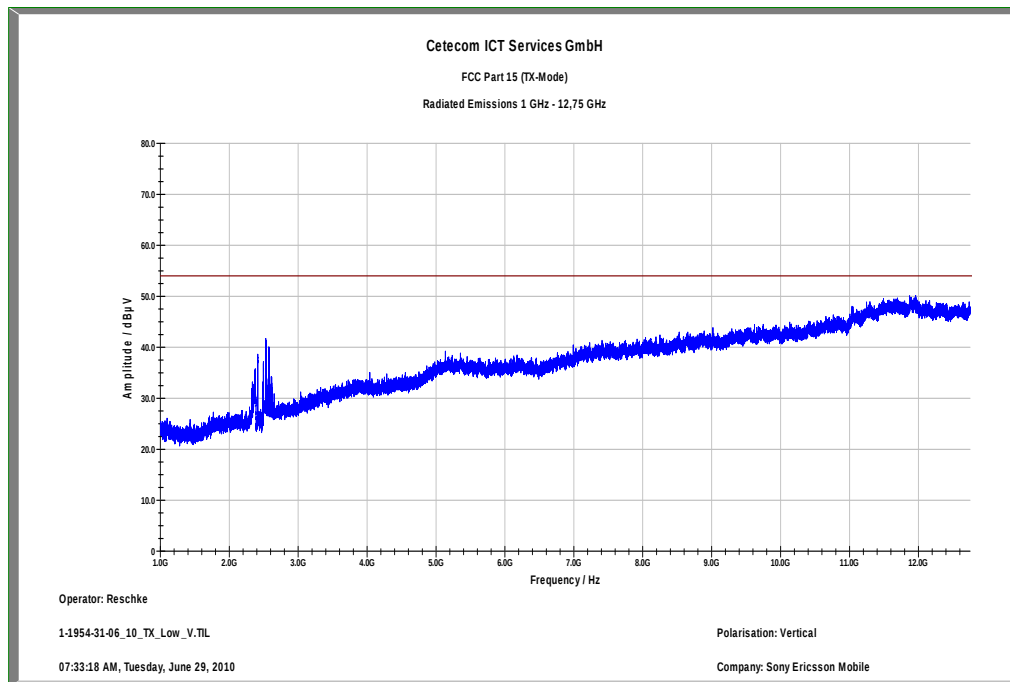
**Final Result 1**

Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Antenna height (cm)	Polarity	Turntable position (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Comment
61.984800	15.1	15000.000	120.000	220.0	V	190.0	11.1	14.9	30.0	
199.686300	7.2	15000.000	120.000	220.0	V	186.0	11.7	26.3	33.5	
673.916250	18.9	15000.000	120.000	172.0	V	5.0	21.8	17.1	36.0	
711.180750	20.0	15000.000	120.000	220.0	V	166.0	22.8	16.0	36.0	
779.569200	20.7	15000.000	120.000	220.0	V	95.0	23.7	15.3	36.0	
882.532050	22.2	15000.000	120.000	116.0	H	190.0	25.0	13.8	36.0	

Hardware Setup: EMI radiated\Electric Field (NOS) - [EMI radiated]

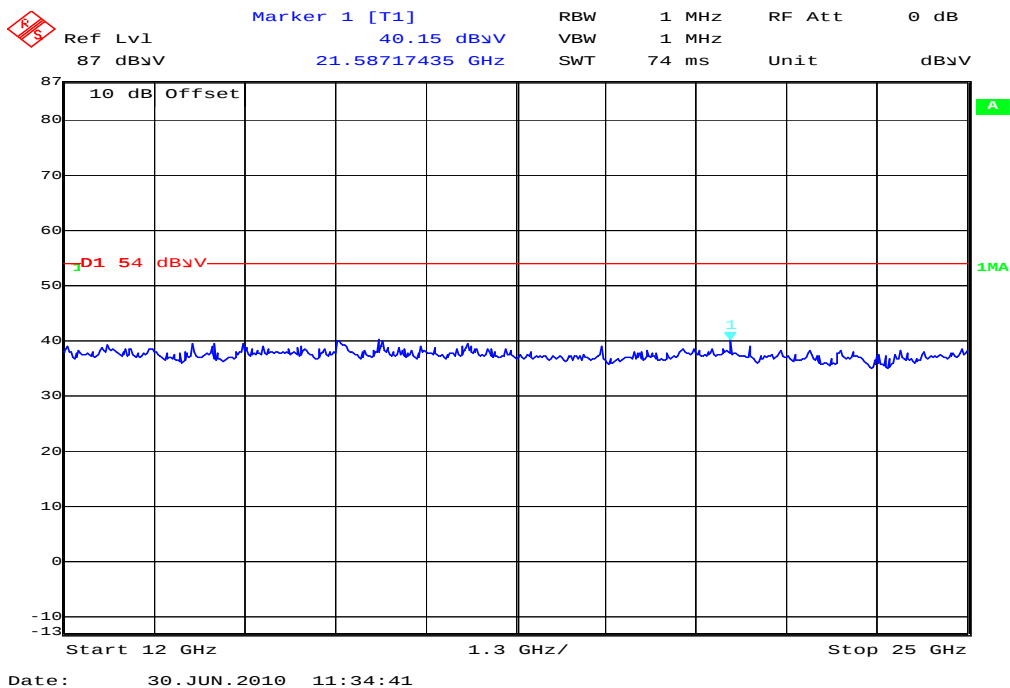
Subrange 1

Frequency Range: 30 MHz - 2 GHz

Receiver: Receiver [ESCI 3]
@ GPIB0 (ADR 20), SN 100083/003, FW 4.32Signal Path: without Notch
FW 1.0Antenna: VULB 9163
SN 9163-295, FW ---
Correction Table (vertical): VULP6113
Correction Table (horizontal): VULP6113
Correction Table: Cable_EN_1GHz (1005)Antenna Tower: Tower [EMCO 2090 Antenna Tower]
@ GPIB0 (ADR 8), FW REV 3.12Turntable: Turntable [EMCO Turntable]
@ GPIB0 (ADR 9), FW REV 3.12**Plot 2: 1 GHz to 12.75 GHz / Channel 1 - OFDM (horizontal/vertical)**

Carrier suppressed with a 2.4 GHz-band rejection filter.

Plot 3: 12 GHz to 25 GHz / Channel 1 - OFDM (horizontal/vertical) – valid for all channels



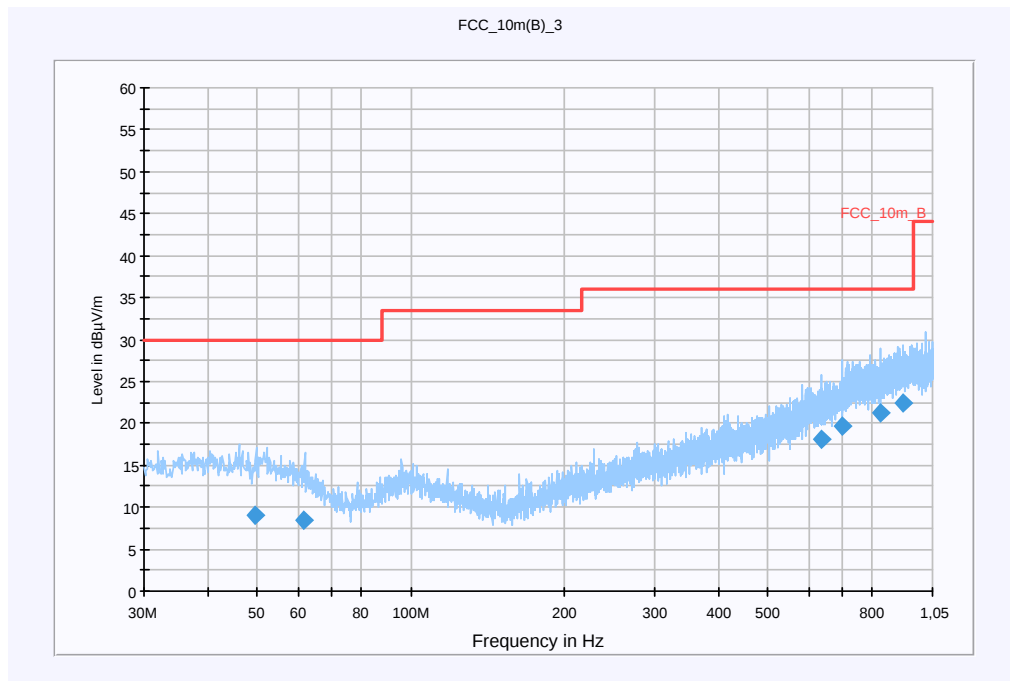
Plot 4: 30 MHz to 1 GHz / Channel 6 - OFDM (horizontal/vertical)**Common Information**

EUT: AAD-3880091-BV + EP800
 Serial Number: IMEI:00440214-072199-8 + 1109w50400488
 Test Description: FCC part 15 C Class B @ 10m
 Operating Conditions: WiFi Testmode: continuous Tx random pattern, 6 MBit/s, CH:6
 Operator Name: LNG
 Comment: Power: 115 V/ 60 Hz

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup: Electric Field (NOS)
 Level Unit: dB μ V/m

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30 MHz - 1,05 GHz	QuasiPeak	120 kHz	15 s	Receiver

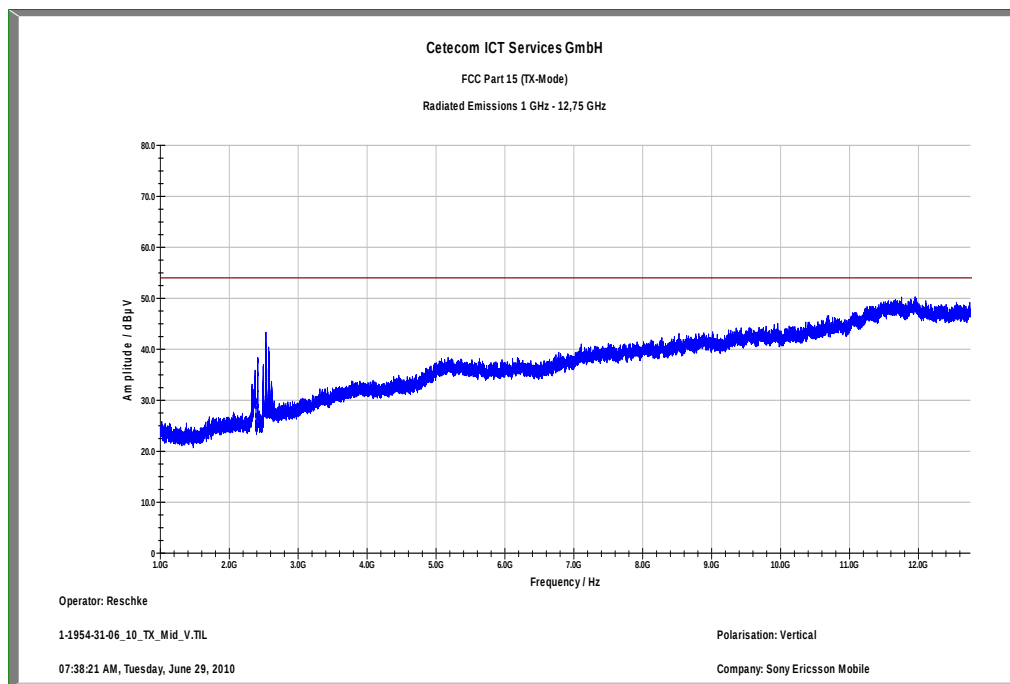
**Final Result 1**

Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Antenna height (cm)	Polarity	Turntable position (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Comment
49.651050	9.1	15000.000	120.000	113.0	V	110.0	13.4	20.9	30.0	
61.711950	8.4	15000.000	120.000	220.0	V	18.0	11.2	21.6	30.0	
636.355800	18.1	15000.000	120.000	116.0	H	18.0	21.0	17.9	36.0	
698.327700	19.6	15000.000	120.000	98.0	V	110.0	22.5	16.4	36.0	
828.326400	21.2	15000.000	120.000	185.0	V	168.0	24.2	14.8	36.0	
920.275200	22.4	15000.000	120.000	196.0	V	-1.0	25.3	13.6	36.0	

Hardware Setup: EMI radiated\Electric Field (NOS) - [EMI radiated]

Subrange 1

Frequency Range: 30 MHz - 2 GHz

Receiver: Receiver [ESCI 3]
@ GPIB0 (ADR 20), SN 100083/003, FW 4.32Signal Path: without Notch
FW 1.0Antenna: VULB 9163
SN 9163-295, FW ---
Correction Table (vertical): VULP6113
Correction Table (horizontal): VULP6113
Correction Table: Cable_EN_1GHz (1005)Antenna Tower: Tower [EMCO 2090 Antenna Tower]
@ GPIB0 (ADR 8), FW REV 3.12Turntable: Turntable [EMCO Turntable]
@ GPIB0 (ADR 9), FW REV 3.12**Plot 5: 1 GHz to 12.75 GHz / Channel 6 - OFDM (horizontal/vertical)**

Carrier suppressed with a 2.4 GHz-band rejection filter.

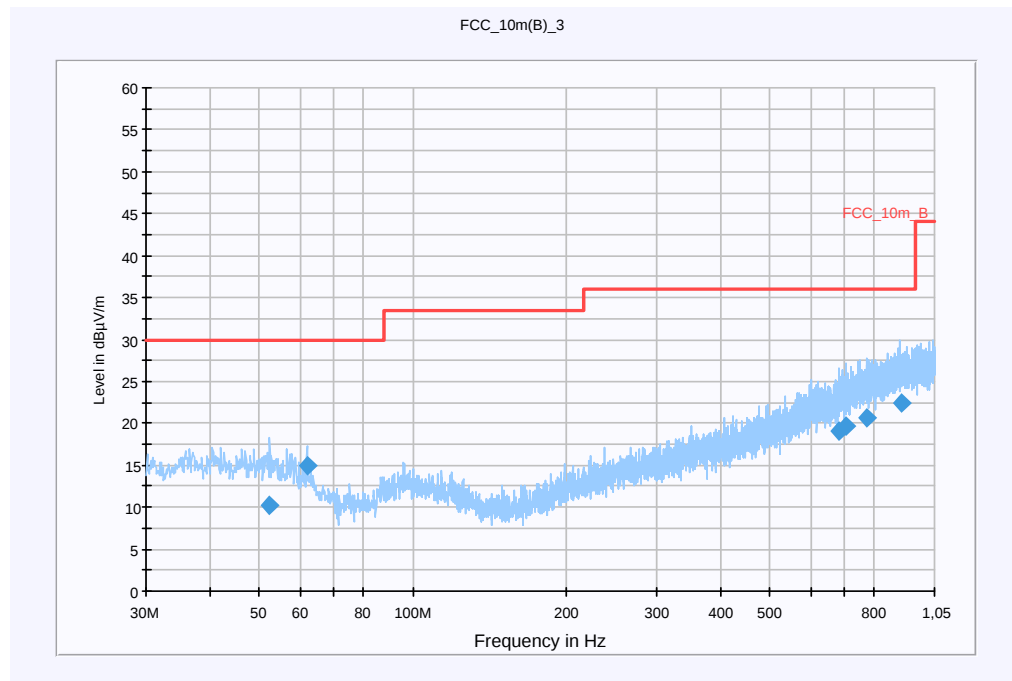
Plot 6: 30 MHz to 1 GHz / Channel 11 - OFDM (horizontal/vertical)**Common Information**

EUT: AAD-3880091-BV + EP800
 Serial Number: IMEI:00440214-072199-8 + 1109w50400488
 Test Description: FCC part 15 C Class B @ 10m
 Operating Conditions: WiFi Testmode: continuous Tx random pattern, 6 MBit/s, CH:11
 Operator Name: LNG
 Comment: Power: 115 V/ 60 Hz

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup: Electric Field (NOS)
 Level Unit: dB μ V/m

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30 MHz - 1,05 GHz	QuasiPeak	120 kHz	15 s	Receiver

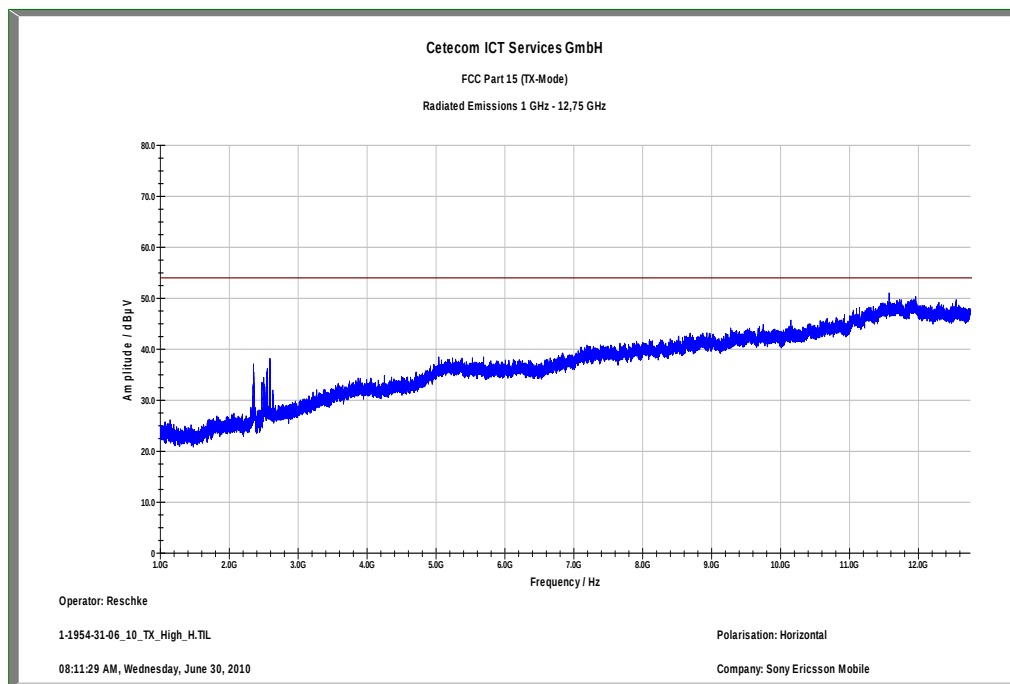
**Final Result 1**

Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Antenna height (cm)	Polarity	Turntable position (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Comment
52.340250	10.2	15000.000	120.000	158.0	V	96.0	13.1	19.8	30.0	
61.988700	15.0	15000.000	120.000	220.0	V	17.0	11.1	15.0	30.0	
683.377350	19.1	15000.000	120.000	208.0	H	96.0	22.0	16.9	36.0	
706.395600	19.7	15000.000	120.000	220.0	V	78.0	22.7	16.3	36.0	
775.484550	20.7	15000.000	120.000	220.0	V	257.0	23.7	15.3	36.0	
901.544100	22.4	15000.000	120.000	136.0	V	168.0	25.2	13.6	36.0	

Hardware Setup: EMI radiated\Electric Field (NOS) - [EMI radiated]

Subrange 1

Frequency Range: 30 MHz - 2 GHz

Receiver: Receiver [ESCI 3]
@ GPIB0 (ADR 20), SN 100083/003, FW 4.32Signal Path: without Notch
FW 1.0Antenna: VULB 9163
SN 9163-295, FW ---
Correction Table (vertical): VULP6113
Correction Table (horizontal): VULP6113
Correction Table: Cable_EN_1GHz (1005)Antenna Tower: Tower [EMCO 2090 Antenna Tower]
@ GPIB0 (ADR 8), FW REV 3.12Turntable: Turntable [EMCO Turntable]
@ GPIB0 (ADR 9), FW REV 3.12**Plot 7: 1 GHz to 12.75 GHz / Channel 11 - OFDM (horizontal/vertical)**

Carrier suppressed with a 2.4 GHz-band rejection filter.

9.11 RX Spurious Emissions Radiated

Description:

Measurement of the radiated spurious emissions in idle/receive mode. The results are valid for both modes.

Measurement:

Measurement parameter	
Detector:	Peak / Quasi Peak
Sweep time:	Auto
Video bandwidth:	Sweep: 100 kHz Re-measurement: 10 Hz
Resolution bandwidth:	F < 1 GHz: 100 kHz F > 1 GHz: 1 MHz
Span:	30 MHz to 25 GHz
Trace-Mode:	Max Hold

Limits:

FCC		IC
CFR Part 15.109		RSS Gen, Issue 2, 4.10
RX Spurious Emissions Radiated		
Frequency (MHz)	Field Strength (dB μ V/m)	Measurement distance
30 - 88	30.0	10
88 – 216	33.5	10
216 – 960	36.0	10
Above 960	54.0	3

Result: Also see plots

RX Spurious Emissions Radiated [dBμV/m]		
F [MHz]	Detector	Level [dBμV/m]
No critical peaks found		
Measurement uncertainty	± 3 dB	

Result: The result of the measurement is passed.

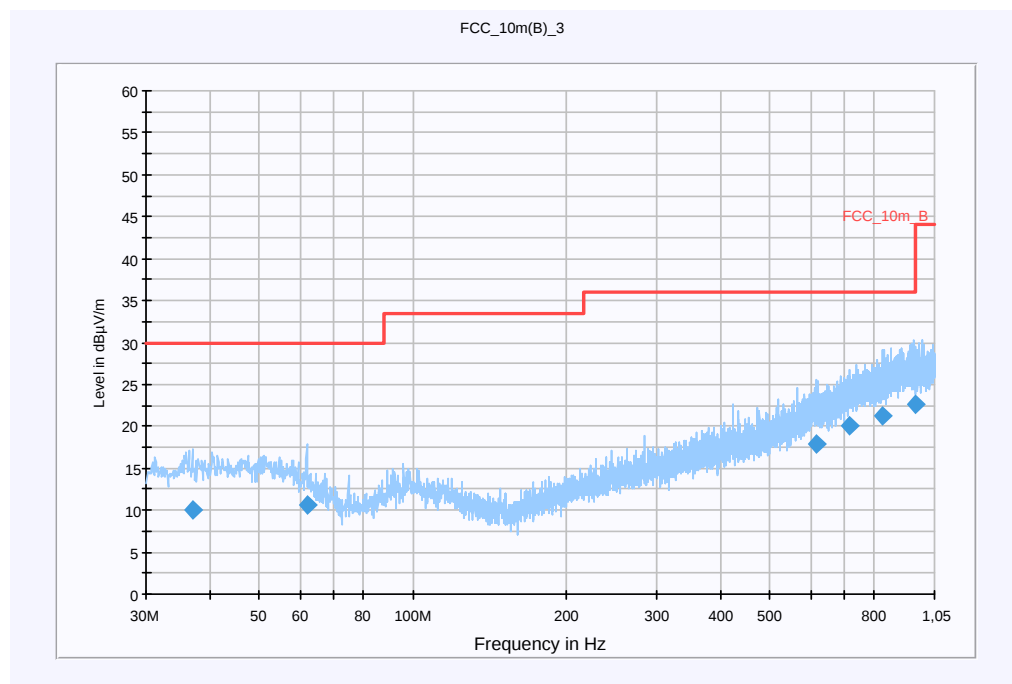
Plot 1: 30 MHz to 1 GHz / Idle-mode (horizontal/vertical)**Common Information**

EUT: AAD-3880091-BV + EP800
 Serial Number: IMEI:00440214-072199-8 + 1109w50400488
 Test Description: FCC part 15 C Class B @ 10m
 Operating Conditions: WiFi idle
 Operator Name: LNG
 Comment: Power: 115 V/ 60 Hz

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup: Electric Field (NOS)
 Level Unit: dB μ V/m

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30 MHz - 1,05 GHz	QuasiPeak	120 kHz	15 s	Receiver

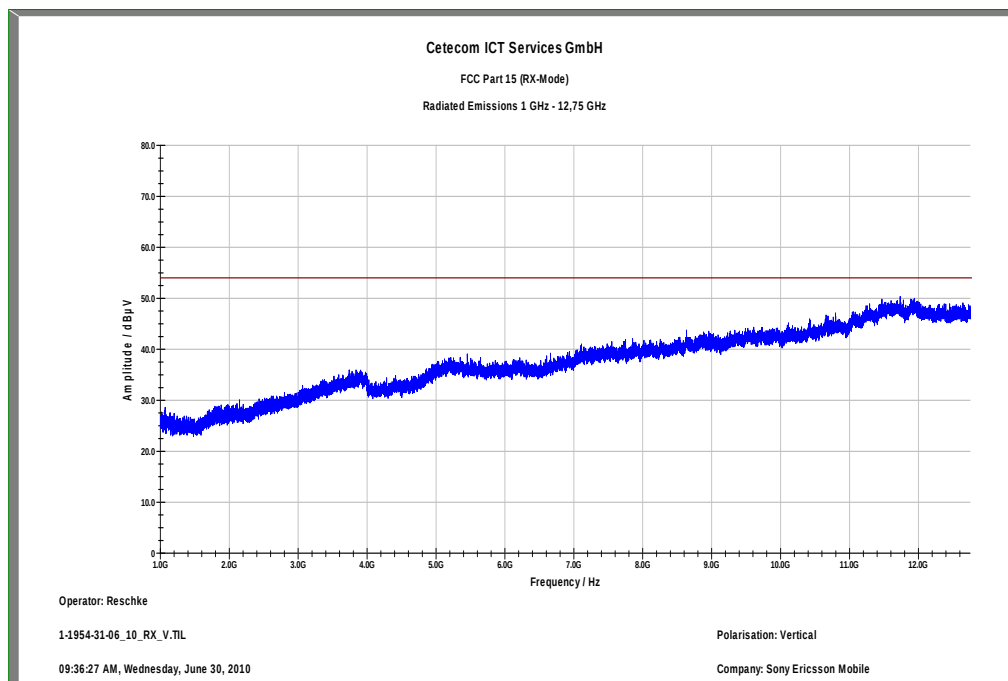
**Final Result 1**

Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Antenna height (cm)	Polarity	Turntable position (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Comment
37.120200	10.0	15000.000	120.000	137.0	V	200.0	13.2	20.0	30.0	
62.056050	10.6	15000.000	120.000	167.0	V	18.0	11.1	19.4	30.0	
617.633400	18.0	15000.000	120.000	220.0	H	260.0	20.9	18.0	36.0	
716.283150	20.1	15000.000	120.000	220.0	H	99.0	22.9	15.9	36.0	
832.051650	21.3	15000.000	120.000	220.0	H	96.0	24.3	14.7	36.0	
959.722500	22.6	15000.000	120.000	220.0	V	186.0	25.4	13.4	36.0	

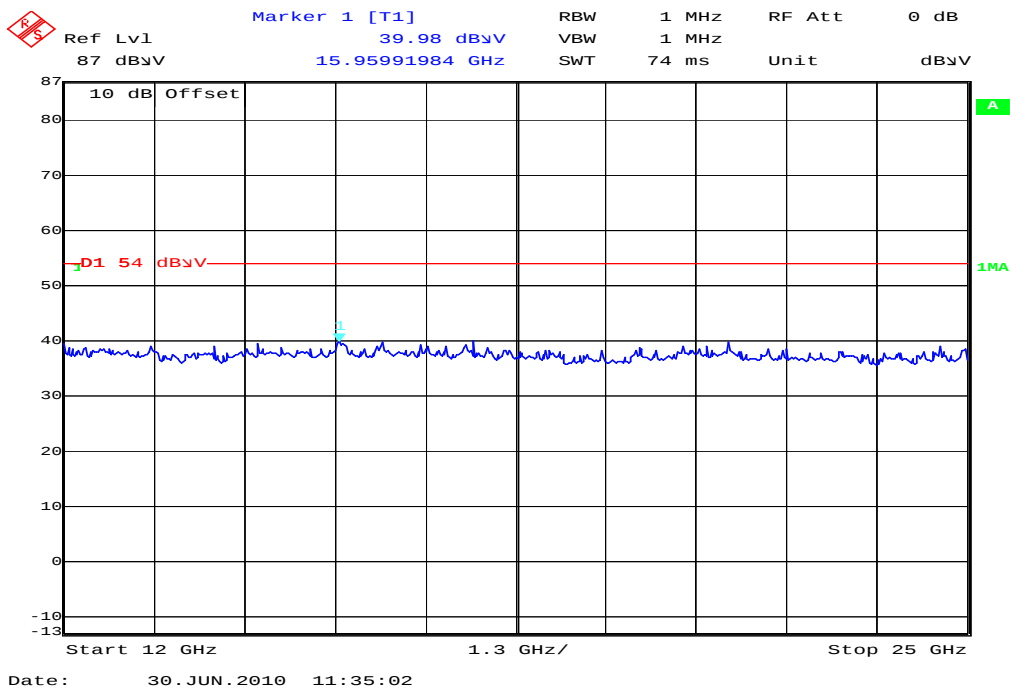
Hardware Setup: EMI radiated\Electric Field (NOS) - [EMI radiated]

Subrange 1

Frequency Range: 30 MHz - 2 GHz

Receiver: Receiver [ESCI 3]
@ GPIB0 (ADR 20), SN 100083/003, FW 4.32Signal Path: without Notch
FW 1.0Antenna: VULB 9163
SN 9163-295, FW ---
Correction Table (vertical): VULP6113
Correction Table (horizontal): VULP6113
Correction Table: Cable_EN_1GHz (1005)Antenna Tower: Tower [EMCO 2090 Antenna Tower]
@ GPIB0 (ADR 8), FW REV 3.12Turntable: Turntable [EMCO Turntable]
@ GPIB0 (ADR 9), FW REV 3.12**Plot 2: 1 GHz to 12.75 GHz / Idle-mode (horizontal/vertical)**

Plot 3: 12 GHz to 25 GHz / Idle-mode (horizontal/vertical)



9.12 TX Spurious Emissions Radiated < 30 MHz

Description:

Measurement of the radiated spurious emissions in transmit mode below 30 MHz. The EUT is set to channel 6. This measurement is representative for all channels and modes. If critical peaks are found channel 1 and channel 11 will be measured too. The measurement is performed with the data rate producing the highest output power. The limits are recalculated to a measurement distance of 3 m with 40 dB/decade according CFR Part 2.

Measurement:

Measurement parameter	
Detector:	Quasi Peak
Sweep time:	Auto
Video bandwidth:	F < 150 kHz: 200 Hz F > 150 kHz: 9 kHz
Resolution bandwidth:	F < 150 kHz: 1 kHz F > 150 kHz: 100 kHz
Span:	9 kHz to 30 MHz
Trace-Mode:	Max Hold

Limits:

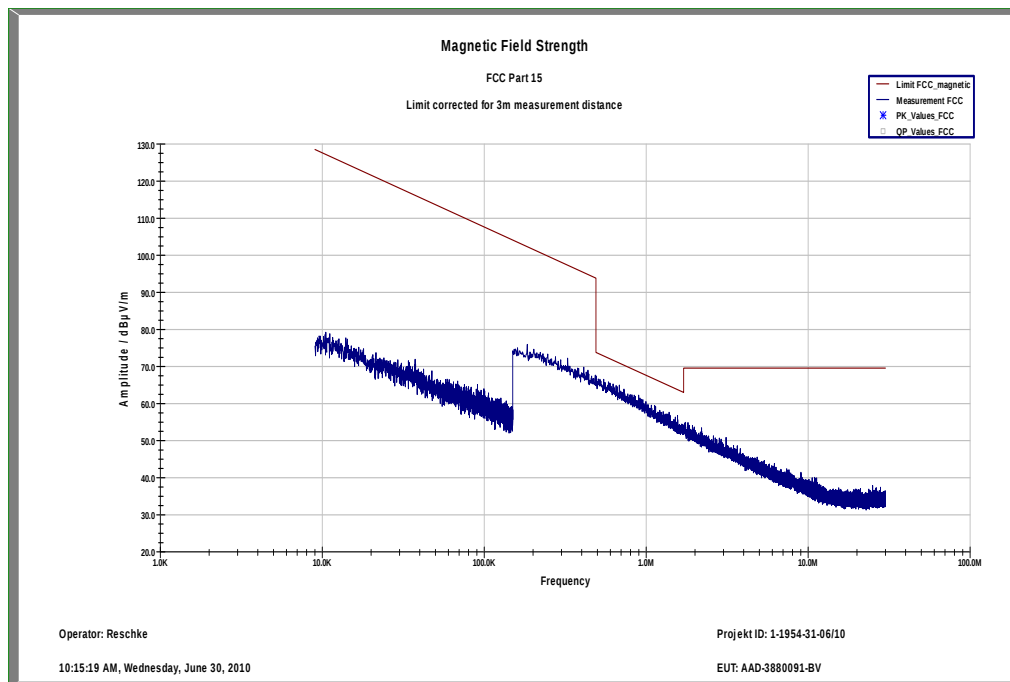
FCC		IC	
CFR Part 15.209(a)		RSS –Gen	
TX Spurious Emissions Radiated < 30 MHz			
Frequency (MHz)	Field Strength (dBμV/m)	Measurement distance	
0.009 – 0.490	2400/F(kHz)	300	
0.490 – 1.705	24000/F(kHz)	30	
1.705 – 30.0	30	30	

Result: Also see plots

TX Spurious Emissions Radiated < 30 MHz [dBμV/m]		
F [MHz]	Detector	Level [dBμV/m]
No critical peaks found		
Measurement uncertainty	± 3 dB	

Result: The result of the measurement is passed.

Plot 1: 9 kHz to 30 MHz / DSSS / OFDM



9.13 TX Spurious Emissions Conducted < 30 MHz

Description:

Measurement of the conducted spurious emissions in transmit mode below 30 MHz. The EUT is set to channel 6. This measurement is repeated for DSSS and OFDM modulation. If critical peaks are found channel 1 and channel 11 will be measured too. The measurement is performed with the data rate producing the highest output power. Both power lines, phase and neutral line, are measured. Found peaks are remeasured with average and quasi peak detection to show compliance to the limits.

Measurement:

Measurement parameter	
Detector:	Peak - Quasi Peak / Average
Sweep time:	Auto
Video bandwidth:	F < 150 kHz: 200 Hz F > 150 kHz: 9 kHz
Resolution bandwidth:	F < 150 kHz: 1 kHz F > 150 kHz: 100 kHz
Span:	9 kHz to 30 MHz
Trace-Mode:	Max Hold

Limits:

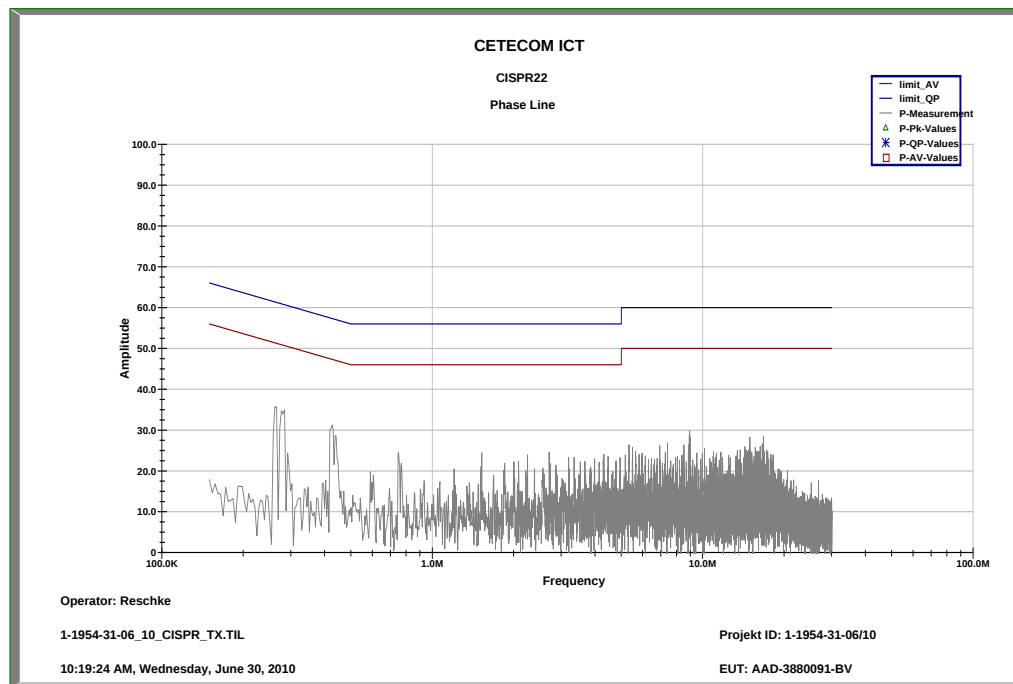
FCC		IC
CFR Part 15.107(a)		-
TX Spurious Emissions Conducted < 30 MHz		
Frequency (MHz)	Field Strength (dBμV/m)	Measurement distance
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30

Result: Also see plots

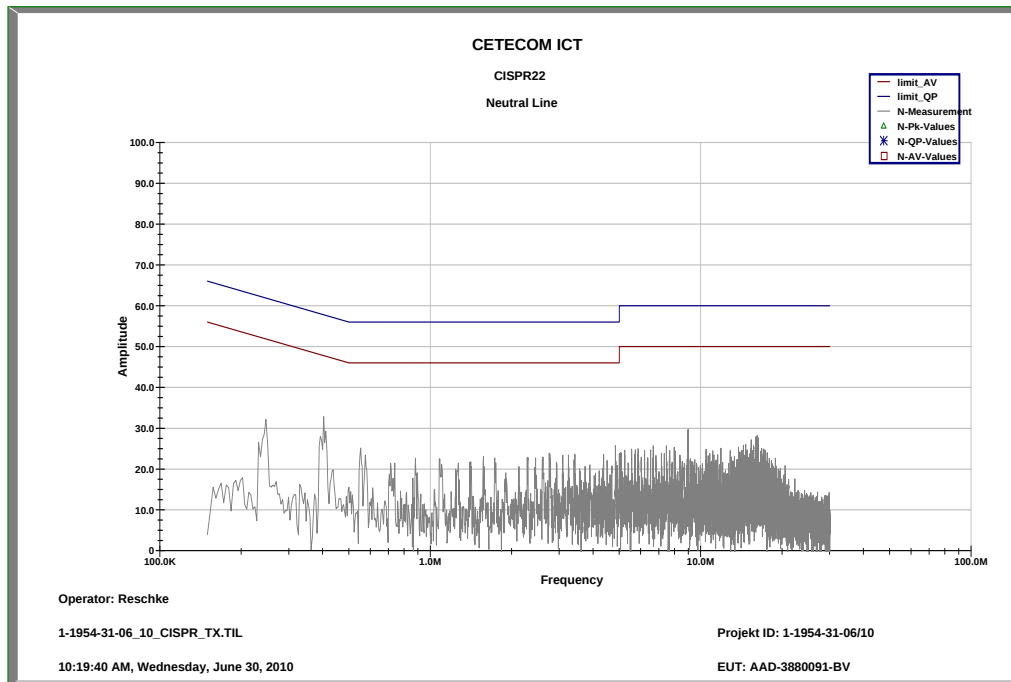
TX Spurious Emissions Conducted < 30 MHz [dBμV/m]		
F [MHz]	Detector	Level [dBμV/m]
No critical peaks found		
Measurement uncertainty	± 3 dB	

Result: The result of the measurement is passed.

Plot 1: 9 kHz to 30 MHz / Phase Line – DSSS / OFDM



Plot 2: 9 kHz to 30 MHz / Neutral Line – DSSS / OFDM



10 Test equipment and ancillaries used for tests

In order to simplify the identification of the equipment used at each specific test, each item of test equipment and ancillaries are provided with an identifier or number in the equipment list below.

Typically, the calibrations of the test apparatus are commissioned to and performed by an accredited calibration laboratory. The calibration intervals are determined in accordance with the DIN EN ISO/IEC 17025. In addition to the external calibrations, the laboratory executes comparison measurements with other calibrated test systems or effective verifications. Weekly chamber inspections and range calibrations are performed. Where possible, rf-generating and signalling equipment as well as measuring receivers and analyzers are connected to an external high-precision 10 MHz reference (GPS-based or rubidium frequency standard).

No.	Labor / Item	Equipment	Type	Manufact.	Serial No.	INV. No Cetecom	Kal. Art	Last Calibration	Next Calibration
1	n. a.	DC Power Supply 0 – 32V	1108-32	Heiden	001802	300001383	Ve		
2	n. a.	Temperature Test Chamber	VT 4002	Heraeus Voetsch	521/83761	300002326	Ve	28.05.2009	28.05.2011
3	n. a.	Signal Analyzer 20Hz-26,5GHz-150 to + 30 DBM	FSIQ26	R&S	835111/0004	300002678	Ve	06.01.2009	06.01.2011
4	n. a.	NRP Power meter Display and control unit AC sup	NRP + NRP-Z81	R&S	100212 + 100010	300003780	vlKI!	08.01.2010	08.01.2012
5	n. a.	DC power supply, 60Vdc, 50A, 1200 W	6032A	HP Meßtechnik	2818A03450	300001040	Ve	08.01.2009	08.01.2012
6	n. a.	PowerAttenuator	8325	Byrd	1530	300001595			
7	n. a.	Double-Ridged Waveguide Horn Antenna 1-18.0GHz	3115	EMCO	8812-3088	300001032	vlKI!	05.03.2009	05.03.2011
8	n. a.	Active Loop Antenna	6502	EMCO	2210	300001015	ne		
9	n. a.	Anechoic chamber		MWB	87400/02	300000996			
10	Spec.A. 2_2e	System rack for EMI measurement solution	85900	HP I.V.	*	300000222	ne		
11	9	Artificial Mains 9 kHz to 30 MHz, 4 x 25 Ampere	ESH3-Z5	R&S	828576/020	300001210	Ve	06.01.2010	06.01.2012
12	n. a.	Relais Matrix	3488A	HP Meßtechnik	2719A15013	300001156	ne		
13	n. a.	Relais Matrix	PSU	R&S	890167/024	300001168	ne		
14	n. a.	Isolating Transformer	RT5A	Grundig	9242	300001263	ne		
15	n. a.	Three-Way Power Splitter, 50 Ohm	11850C	HP Meßtechnik		300000997	ne		
16	n. a.	Switch / Control Unit	3488A	HP	2605e08770	300001443	ne		
17	n. a.	Band Reject filter	WRCG1855/1910-1835/1925-40/8SS	Wainwright	7	300003350	ev		
18	n. a.	Band Reject filter	WRCG2400/2483-2375/2505-50/10SS	Wainwright	11	300003351	ev		
19	n. a.	TILE-Software Emission	Quantum Change, Modell TILE-ICS/FULL	EMCO	none	300003451	ne		
20	n. a.	Highpass Filter	WHKX2.9/18G-12SS	Wainwright	1	300003492	ev		
21	n. a.	Highpass Filter	WHK1.1/15G-10SS	Wainwright	3	300003255	ev		
22	n. a.	Highpass Filter	WHKX7.0/18G-8SS	Wainwright	18	300003789	ne		
23	n. a.	PSA Spectrum Analyzer 3 Hz - 26.5 GHz	E4440A	Agilent Technologies	MY48250080	300003812	k	05.08.2008	05.08.2010
24	n. a.	MXG Microwave	N5183A	Agilent	MY47420220	300003813	k	06.08.2008	06.08.2010

		Analog Signal Generator		Technologies					
25	n. a.	RF Filter Section 9kHz - 1GHz	N9039A	Agilent Technologies	MY48260003	300003825	vlKI!	19.08.2008	19.08.2010
26	n. a.	TRILOG Broadband Test-Antenna 30 MHz - 3 GHz	VULB9163	Schwarzbeck	371	300003854	vlKI!	17.12.2008	17.12.2010
27	45	Switch-Unit	3488A	HP Meßtechnik	2719A14505	300000368	g		
28	50	DC power supply, 60Vdc, 50A, 1200 W	6032A	HP Meßtechnik	2920A04466	300000580	k	06.01.2009	06.01.2011
29	n. a.	software	SPS_PHE 1.4f	Spitzberger & Spieß	B5981; 5D1081;B5979	300000210	ne		
30	n. a.	EMI Test Receiver	ESCI 1166.5950.03	R&S	100083	300003312	k	08.01.2010	08.01.2012
31	n. a.	Analyzerr-Reference-System (Harmonics and Flicker)	ARS 16/1	SPS	A3509 07/0 0205	300003314	k		
32	n. a.	Amplifier	JS42-00502650-28-5A	MITEQ	1084532	300003379	ev		
33	n. a.	Antenna Tower	Model 2175	ETS-LINDGREN	64762	300003745	izw		
34	n. a.	Positioning Controller	Model 2090	ETS-LINDGREN	64672	300003746	izw		
35	n. a.	Turntable Interface-Box	Model 105637	ETS-LINDGREN	44583	300003747	izw		
36	n. a.	TRILOG Broadband Test-Antenna 30 MHz - 3 GHz	VULB9163	Schwarzbeck	295	300003787	k		
37	n. a.	Spectrum-Analyzer	FSU26	R&S	200809	300003874	k	08.01.2010	08.01.2012

Annex D Document history

Version	Applied changes	Date of release
1.0	Initial release	2010-07-20
-A	Typo on Page 23 (changed the RBW/VBW settings from 1 MHz to 100 kHz)	2010-07-14
-B	Wrong measurement procedure for FCC used. Output Power corrected	2010-07-15
-C	Some typos corrected. Output Power conducted average re-measured = same result / notching changed	2010-07-19
-D	Output Power conducted re-measured with FSU	2010-07-20
-E	Output power on different data rates repeated with FSU	2010-07-20

Annex E Further information**Glossary**

DUT	-	Device under Test
EMC	-	Electromagnetic Compatibility
EUT	-	Equipment under Test
FCC	-	Federal Communication Commission
FCC ID	-	Company Identifier at FCC
HW	-	Hardware
IC	-	Industry Canada
Inv. No.	-	Inventory number
N/A	-	not applicable
S/N	-	Serial Number
SW	-	Software