

## TEST REPORT

Test report no.: 1-5579/12-02-12-B



### Testing laboratory

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#### Accredited Testing Laboratory:

The testing laboratory (area of testing) is accredited according to DIN EN ISO/IEC 17025 (2005) by the Deutsche Akkreditierungsstelle GmbH (DAkkS). The accreditation is valid for the scope of testing procedures as stated in the accreditation certificate with the registration number: D-PL-12076-01-01  
Area of Testing: Radio/Satellite Communications

### Applicant

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### Manufacturer

**Research In Motion Limited**  
305 Phillip Street  
Waterloo, ON N2L 3W8 / CANADA

### Test standard/s

47 CFR Part 15 Title 47 of the Code of Federal Regulations; Chapter I  
Part 15 - Radio frequency devices  
RSS - 210 Issue 8 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:** Blackberry GSM Phones  
**Model name:** RFM121LW  
**FCC ID:** L6ARFM120LW  
**IC:** 2503A-RFM120LW  
**Frequency:** UNII bands: 5150 MHz to 5250 MHz; 5250 MHz to 5350 MHz; 5470 MHz to 5725 MHz  
(lowest channel 5180 MHz, highest channel 5700 MHz)  
**Technology tested:** WLAN (OFDM / a – & n – mode)  
**Antenna:** Integrated antenna  
**Power Supply:** 3.8 V DC by Li - Ion battery  
**Temperature Range:** No extreme conditions needed!


This test report is electronically signed and valid without handwriting signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

### Test report authorised:

  
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Marco Bertolino  
Testing Manager

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## 2 General information

### 2.1 Notes and disclaimer

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 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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This test report is electronically signed and valid without handwritten signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

### 2.2 Application details

Date of receipt of order:	2013-01-04
Date of receipt of test item:	2013-03-12
Start of test:	2013-03-12
End of test:	2013-03-27
Person(s) present during the test:	-/-

## 3 Test standard/s

Test standard	Date	Test standard description
47 CFR Part 15	2012-10	Title 47 of the Code of Federal Regulations; Chapter I Part 15 - Radio frequency devices
RSS - 210 Issue 8	2010-12	Spectrum Management and Telecommunications - Radio Standards Specification Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment

### 3.1 Measurement guidance

UNII: KDB 789033	2011-10	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E
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#### 4 Test environment

Temperature:	$T_{nom}$	+22 °C during room temperature tests
	$T_{max}$	-/- °C during high temperature tests
	$T_{min}$	-/- °C during low temperature tests
Relative humidity content:		42 %
Barometric pressure:		not relevant for this kind of testing
Power supply:	$V_{nom}$	3.8 V DC by Li - Ion battery
	$V_{max}$	-/- V
	$V_{min}$	-/- V

#### 5 Test item

Kind of test item	: Blackberry GSM Phones
Type identification	: RFM121LW
S/N serial number	: Radiated unit: IMEI 990002430036416; PIN 303E5B50 IMEI 990002430036317; PIN 303E5B4F Conducted unit: IMEI 990002430036333; PIN 303E5851
HW hardware status	: CER-53013-001Rev2-905-00
SW software status	: 127.0.1.4429
Frequency band [MHz]	: UNII bands: 5150 MHz to 5250 MHz; 5250 MHz to 5350 MHz; 5470 MHz to 5725 MHz (lowest channel 5180 MHz, highest channel 5700 MHz)
Type of radio transmission	: OFDM
Use of frequency spectrum	:
Type of modulation	: QPSK, 16 – QAM, 64 – QAM
Number of channels	: 19
Antenna	: Integrated antenna
Power supply	: 3.8 V DC by Li - Ion battery
Temperature range	: Not needed – normal test conditions only!

#### 5.1 Additional information

Test setup- and EUT-photos are included in test reports: 1-5579/12-02-01\_AnnexA  
1-5579/12-02-01\_AnnexD

#### 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 8, Annex 9	Passed	2013-04-04	Reduced tests according to manufacturer test plan!

Test specification clause	Test case	Temperature conditions	Power source voltages	Pass	Fail	NA	NP	Remark
-/-	Output power verification (conducted)	Nominal	Nominal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No passed / fail criteria!
-/-	Gain	Nominal	Nominal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No passed / fail criteria!
RSS GEN 4.7	Frequency deviation	Nominal	Nominal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	not rated
		Low	Low	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		High	High	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
U-NII Part 15	Duty cycle	Nominal	Nominal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No passed / fail criteria!
§15.407(a) RSS-210	Maximum output power (conducted & radiated)	Nominal	Nominal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	complies
§15.407(a) RSS-210	Power spectral density	Nominal	Nominal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	complies
§15.407(a) RSS-210	Spectrum bandwidth 26dB bandwidth	Nominal	Nominal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	complies
§15.407(a) RSS-210	Peak excursion measurements	Nominal	Nominal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	complies
§15.205 RSS-210	Band edge compliance radiated	Nominal	Nominal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	complies
§15.407(b) RSS-210	TX spurious emissions radiated	Nominal	Nominal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	complies
§15.109 RSS-Gen	RX spurious emissions radiated	Nominal	Nominal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	complies
§15.209(a) RSS-Gen	Spurious emissions radiated < 30 MHz	Nominal	Nominal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	complies
§15.107(a)	Spurious emissions conducted emissions < 30 MHz	Nominal	Nominal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	complies

**Note:** NA = Not Applicable; NP = Not Performed

## 8 RF measurements

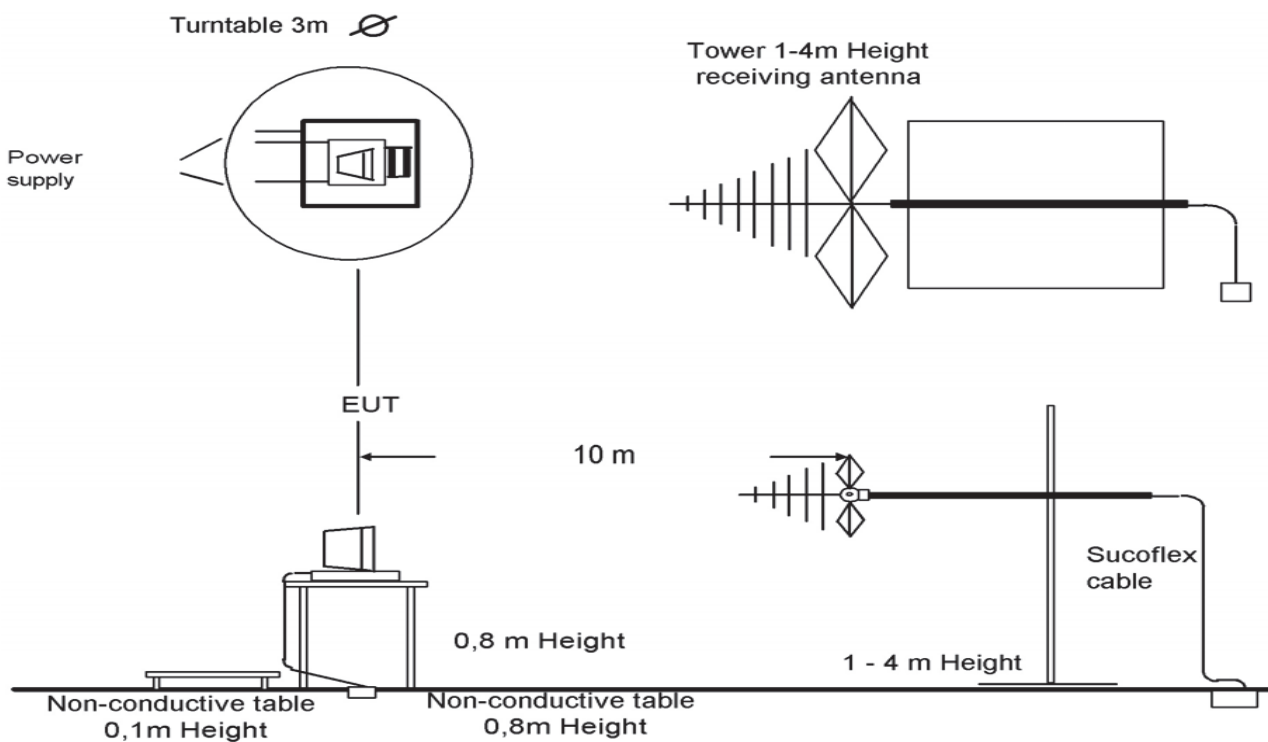
### 8.1 Description of test setup

#### 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 C63.4-2009 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 C63-4-2009 clause 4.2.

Antennas are confirmed with ANSI C63.2-1996 item 15.

Semi anechoic chamber



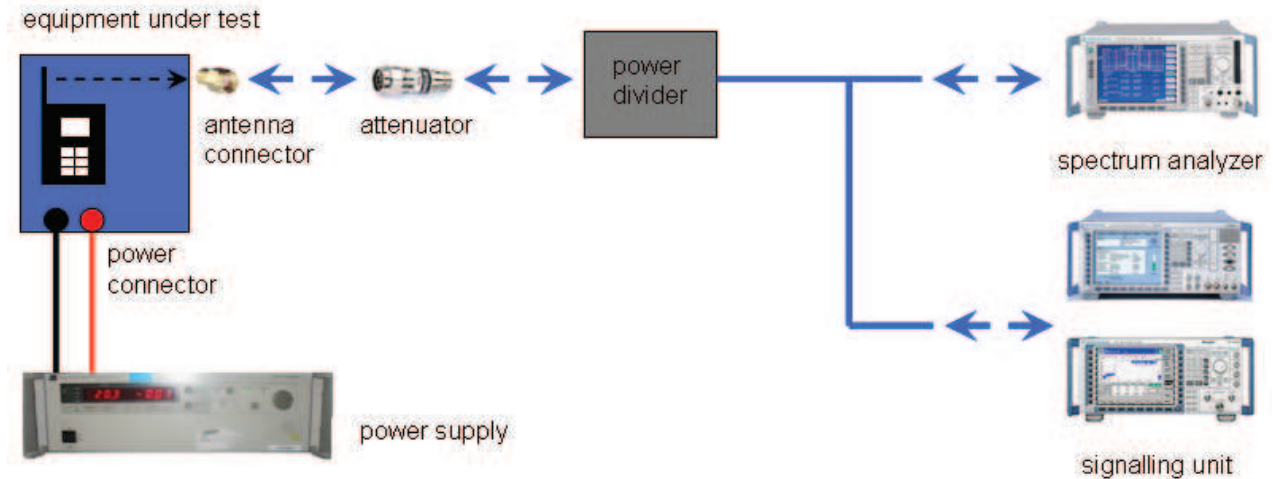
Picture 1: Diagram radiated measurements

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

### 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: None

- Test mode:
- No test mode available.
  - Special software is used.  
EUT is transmitting pseudo random data by itself

## 9 Measurement results

### 9.1 Output power verification (conducted)

Not performed! Tests according to manufacturer test plan!

### 9.2 Gain

Not performed! Tests according to manufacturer test plan!

### 9.3 Frequency deviation

#### Description:

Frequency deviation from the defined centre frequency.

#### Measurement:

Measurement parameter	
Detector:	Peak
Sweep time:	Auto
Resolution bandwidth:	1 kHz
Video bandwidth:	$\geq 3 \times \text{RBW}$
Span:	10 kHz
Trace-Mode:	Max hold (allow trace to fully stabilize)



**Results:**

Frequency deviation				
Frequency	Input voltage	Temperature	TX mode	Frequency error / ppm
5180 MHz	3.6 V DC	20 C°	Modulated carrier	-4 kHz / -0.77
	4.1 V DC	20 C°		-4 kHz / -0.77
	4.35 V DC	20 C°		-7 kHz / -1.35
	3.6 V DC	-30 C°		22.8 kHz / 4.40
	4.1 V DC	-30 C°		22.2 kHz / 4.29
	4.35 V DC	-30 C°		22.2 kHz / 4.29
	3.6 V DC	+60 C°		-28.0 kHz / -5.41
	4.1 V DC	+60 C°		-28.6 kHz / -5.52
	4.35 V DC	+60 C°		-28.6 kHz / -5.52
5240 MHz	3.6 V DC	20 C°	Modulated carrier	-8.4 kHz / -1.60
	4.1 V DC	20 C°		-8.8 kHz / -1.68
	4.35 V DC	20 C°		-9.2 kHz / -1.76
	3.6 V DC	-30 C°		23.4 kHz / 4.47
	4.1 V DC	-30 C°		23.0 kHz / 4.39
	4.35 V DC	-30 C°		23.4 kHz / 4.47
	3.6 V DC	+60 C°		-29.6 kHz / -5.65
	4.1 V DC	+60 C°		-29.4 kHz / -5.61
	4.35 V DC	+60 C°		-29.8 kHz / -5.69
5320 MHz	3.6 V DC	20 C°	Modulated carrier	-12.4 kHz / -2.33
	4.1 V DC	20 C°		-12.8 kHz / -2.41
	4.35 V DC	20 C°		-12.4 kHz / -2.33
	3.6 V DC	-30 C°		23.2 kHz / 4.36
	4.1 V DC	-30 C°		23.4 kHz / 4.40
	4.35 V DC	-30 C°		23.2 kHz / 4.36
	3.6 V DC	+60 C°		-30.2 kHz / -5.68
	4.1 V DC	+60 C°		-29.8 kHz / -5.60
	4.35 V DC	+60 C°		-29.4 kHz / -5.53
5500 MHz	3.6 V DC	20 C°	Modulated carrier	-12.4 kHz / -2.26
	4.1 V DC	20 C°		-13.2 kHz / -2.40
	4.35 V DC	20 C°		-14.0 kHz / -2.55
	3.6 V DC	-30 C°		23.8 kHz / 4.33
	4.1 V DC	-30 C°		24.0 kHz / 4.36
	4.35 V DC	-30 C°		24.2 kHz / 4.40
	3.6 V DC	+60 C°		-30.0 kHz / -5.46
	4.1 V DC	+60 C°		-29.8 kHz / -5.42
	4.35 V DC	+60 C°		-30.6 kHz / -5.56
5700 MHz	3.6 V DC	20 C°	Modulated carrier	-13.6 kHz / -2.39
	4.1 V DC	20 C°		-14.4 kHz / -2.53
	4.35 V DC	20 C°		-13.6 kHz / -2.39
	3.6 V DC	-30 C°		24.6 kHz / 4.32
	4.1 V DC	-30 C°		24.8 kHz / 4.35
	4.35 V DC	-30 C°		24.6 kHz / 4.32
	3.6 V DC	+60 C°		-31.2 kHz / -5.47
	4.1 V DC	+60 C°		-30.8 kHz / -5.40
	4.35 V DC	+60 C°		-30.8 kHz / -5.40

Measurement uncertainty = RBW

**Result:** Not rated

## 9.4 Duty cycle

### Measurement:

Measurement parameter	
Detector:	Peak
Sweep time:	Auto
Resolution bandwidth:	10 MHz
Video bandwidth:	10 MHz
Span:	Zero
Trace-Mode:	Video trigger / view / single sweep

### Results:

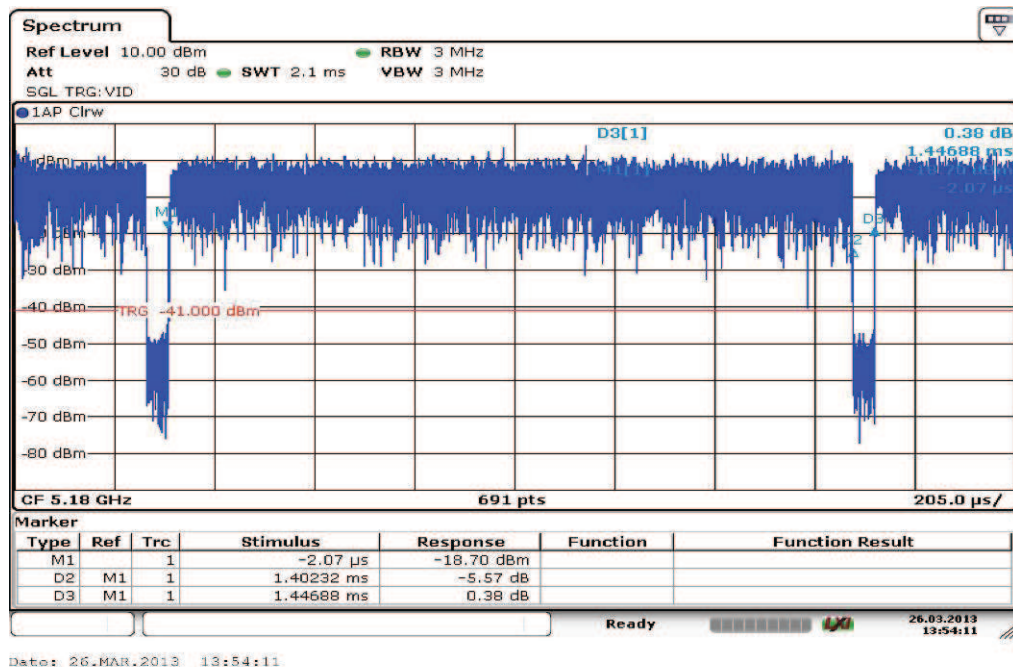
#### Duty cycle and correction factor:

OFDM / a – mode: 96.92 % duty cycle => 0.14 dB

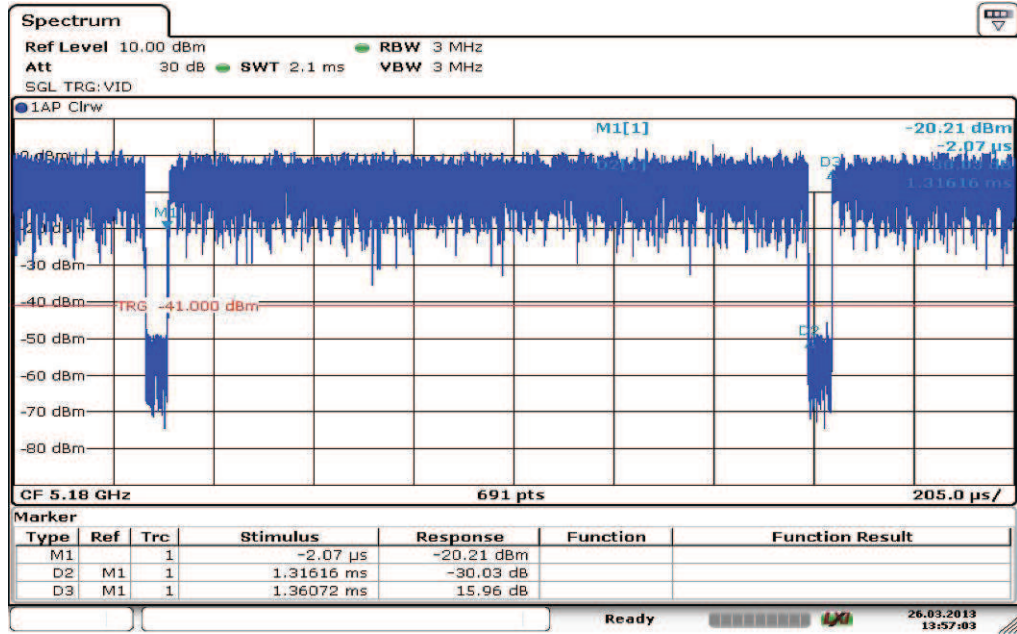
OFDM / n – mode HT20: 96.73 % duty cycle => 0.15 dB

### Plots:

Plot 1: duty cycle of the transmitter – OFDM / a – mode



Plot 2: duty cycle of the transmitter – OFDM / n – mode HT20



Date: 26.MAR.2013 13:57:03

## 9.5 Maximum output power conducted and radiated

### Description:

Measurement of the maximum output power conducted and radiated

### Measurement:

Measurement parameter	
Detector:	RMS
Sweep time:	60s
Resolution bandwidth:	1 MHz
Video bandwidth:	≥ 3 MHz
Span:	> EBW
Trace-Mode:	Max hold
Analyzer function	Band power / channel power Interval > 26 dB EBW

### Limits:

Radiated output power	Conducted output power
Conducted power + 6dBi antenna gain	The lesser one of 50mW or 4 dBm + 10 log Bandwidth 5.150-5.250 GHz 250mW or 11 dBm + 10 log Bandwidth 5.250-5.350 GHz 250mW or 11 dBm + 10 log Bandwidth 5.470-5.725 GHz 1W or 17 dBm + 10 log Bandwidth 5.725-5.825 GHz (where Bandwidth is the 26dB Bandwidth [MHz])

**Result: OFDM / a – mode 6 Mbps**

OFDM / a – mode Channel	Maximum output power conducted [dBm]			
	5180 MHz	5240 MHz	5320 MHz	5500 MHz
+0.14 dB duty cycle correction	11.84	11.90	12.76	10.79
Channel	5700 MHz	-/-	-/-	-/-
+0.14 dB duty cycle correction	10.69			
Measurement uncertainty	± 1 dB			

**Result: Passed**

**Result: OFDM / a – mode 24 Mbps**

OFDM / a – mode Channel	Maximum output power conducted [dBm]			
	5180 MHz	5240 MHz	5320 MHz	5500 MHz
+0.14 dB duty cycle correction	11.66	11.49	12.28	10.50
Channel	5700 MHz	-/-	-/-	-/-
+0.14 dB duty cycle correction	10.29			
Measurement uncertainty	± 1 dB			

**Result: Passed**

**Result: OFDM / a – mode 54 Mbps**

OFDM / a – mode Channel	Maximum output power conducted [dBm]			
	5180 MHz	5240 MHz	5320 MHz	5500 MHz
+0.14 dB duty cycle correction	11.16	10.93	11.87	9.78
Channel	5700 MHz	-/-	-/-	-/-
+0.14 dB duty cycle correction	9.78			
Measurement uncertainty	± 1 dB			

**Result: Passed**

**Result: OFDM / n – mode HT20 MCS0**

OFDM / n – mode HT20 Channel	Maximum output power conducted [dBm]			
	Lowest 5180 MHz	Highest 5320 MHz	Lowest 5500 MHz	Highest 5700 MHz
+0.15 dB duty cycle correction	11.88	12.67	10.81	10.72
Measurement uncertainty	± 1 dB			

**Result: Passed**

**Result: OFDM / n – mode HT20 MCS4**

OFDM / n – mode HT20 Channel	Maximum output power conducted [dBm]			
	Lowest 5180 MHz	Highest 5320 MHz	Lowest 5500 MHz	Highest 5700 MHz
+0.15 dB duty cycle correction	11.33	12.04	10.17	9.97
Measurement uncertainty	± 1 dB			

**Result: Passed**

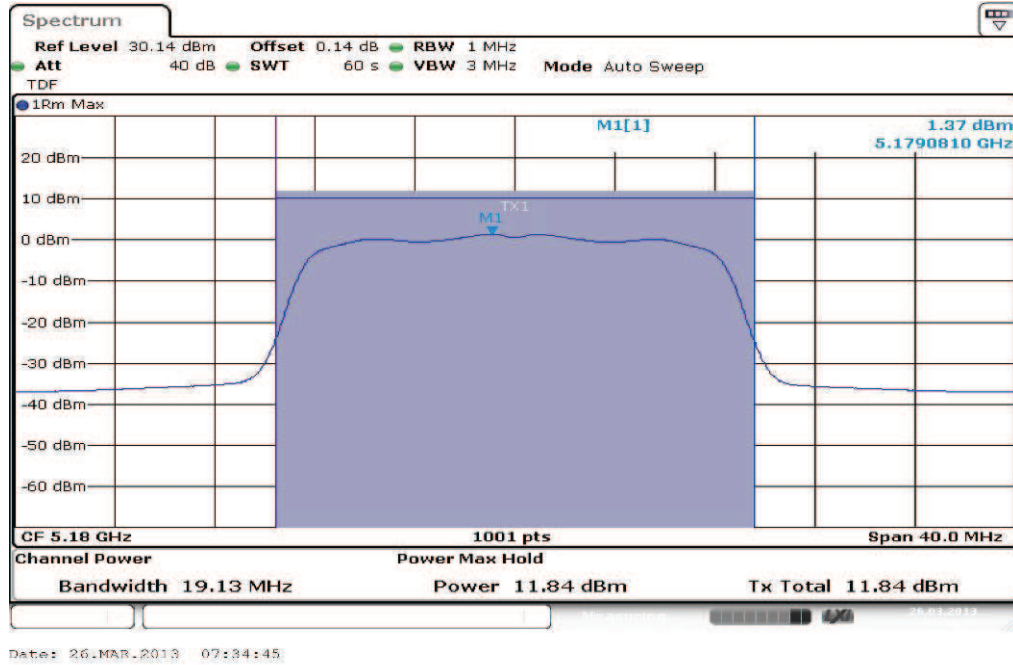
**Result: OFDM / n – mode HT20 MCS7**

OFDM / n – mode HT20 Channel	Maximum output power conducted [dBm]			
	Lowest 5180 MHz	Highest 5320 MHz	Lowest 5500 MHz	Highest 5700 MHz
+0.15 dB duty cycle correction	10.97	11.7	9.79	9.62
Measurement uncertainty	± 1 dB			

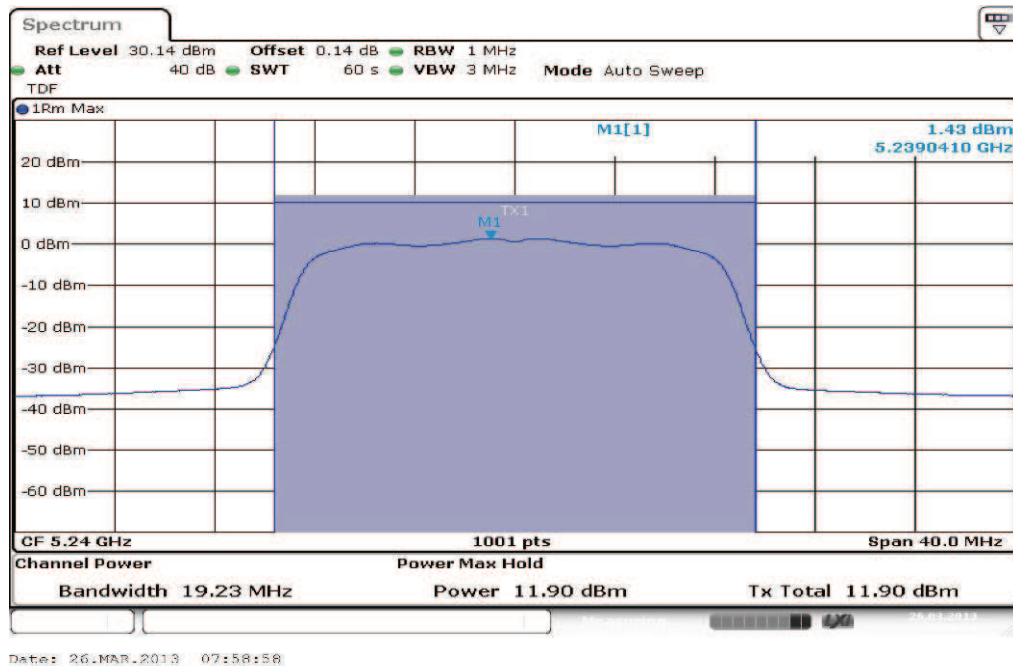
**Result: Passed**

**Plots: OFDM / a – mode 6 Mbps**

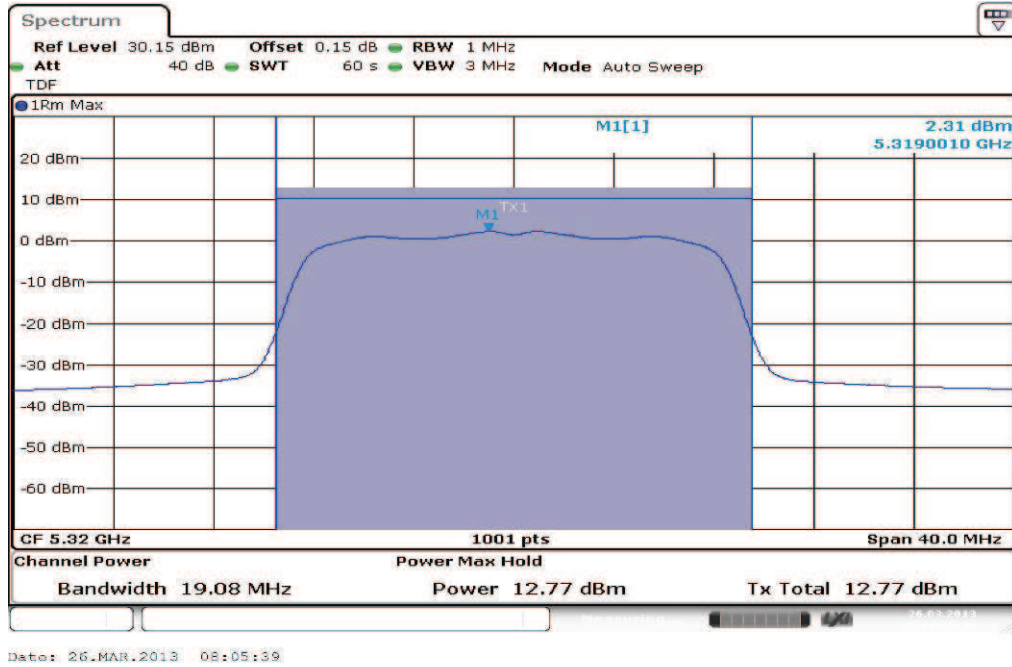
**Plot 1: 5180 MHz**



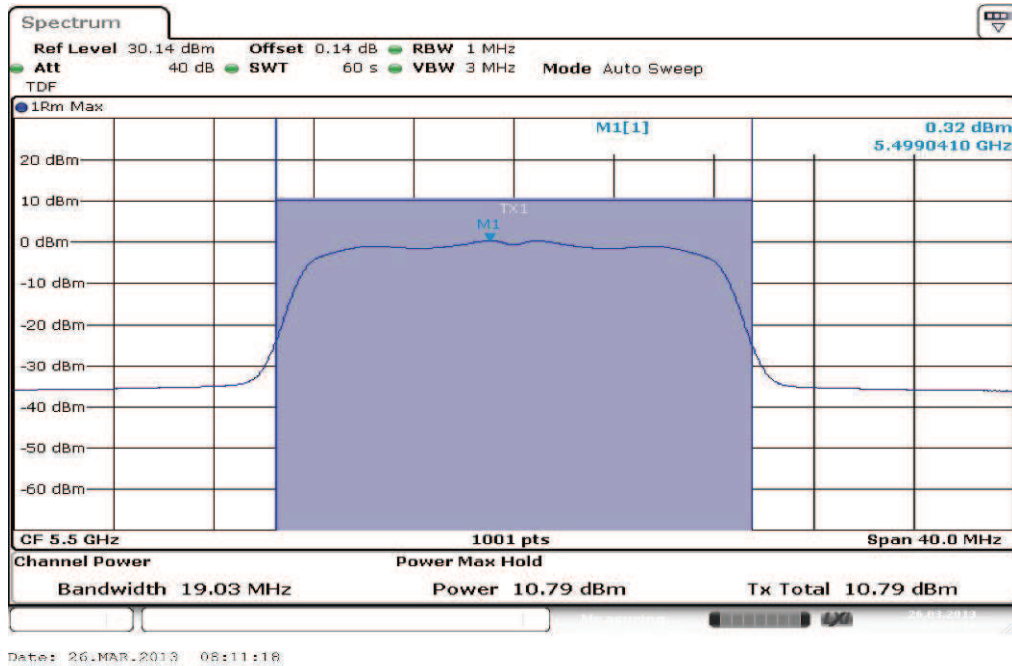
**Plot 2: 5240 MHz**



Plot 3: 5320 MHz

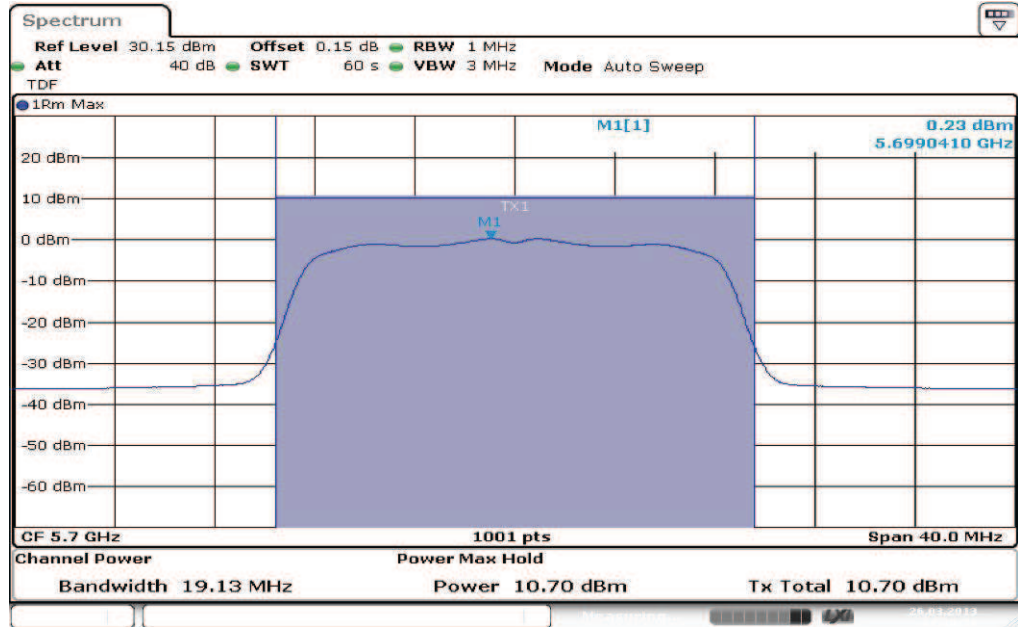


Plot 4: 5500 MHz





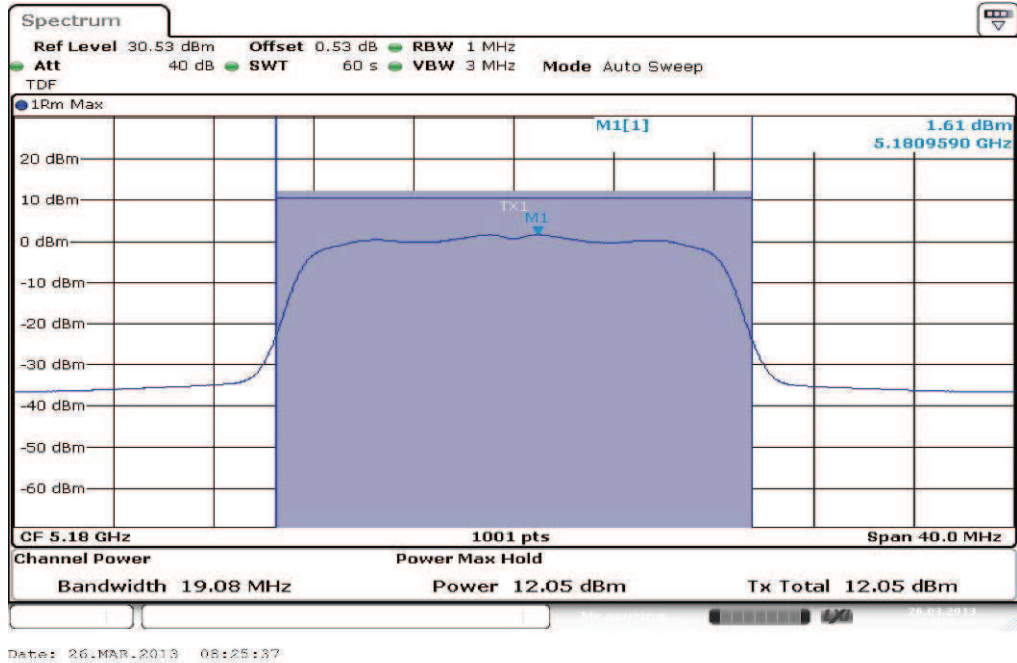
Plot 5: 5700 MHz



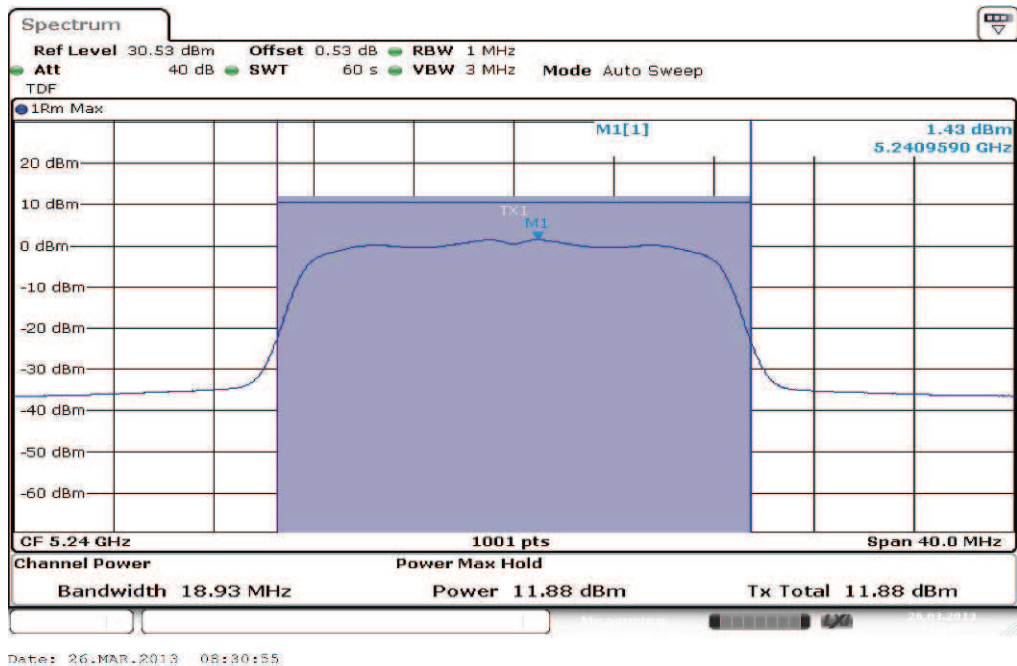
Date: 26.MAR.2013 08:18:38

**Plots: OFDM / a – mode 24 Mbps**

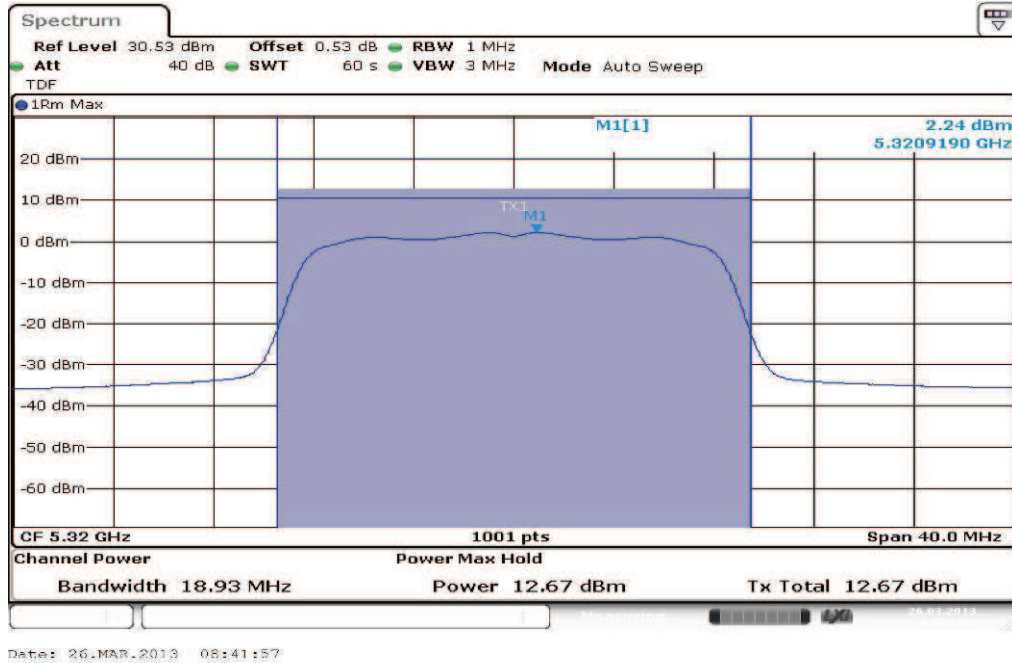
**Plot 1: 5180 MHz**



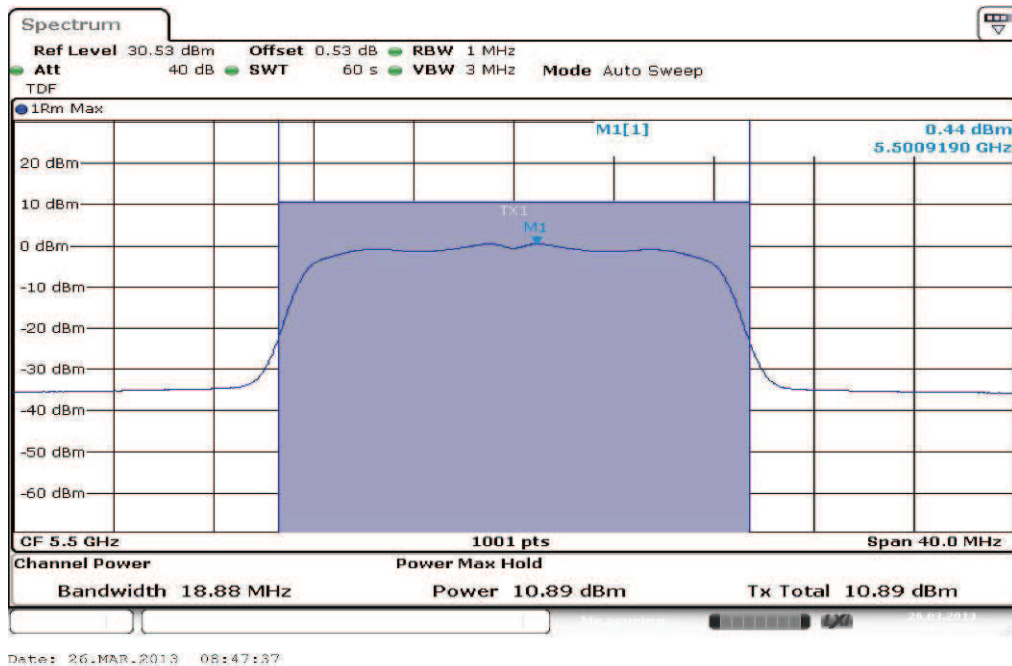
**Plot 2: 5240 MHz**



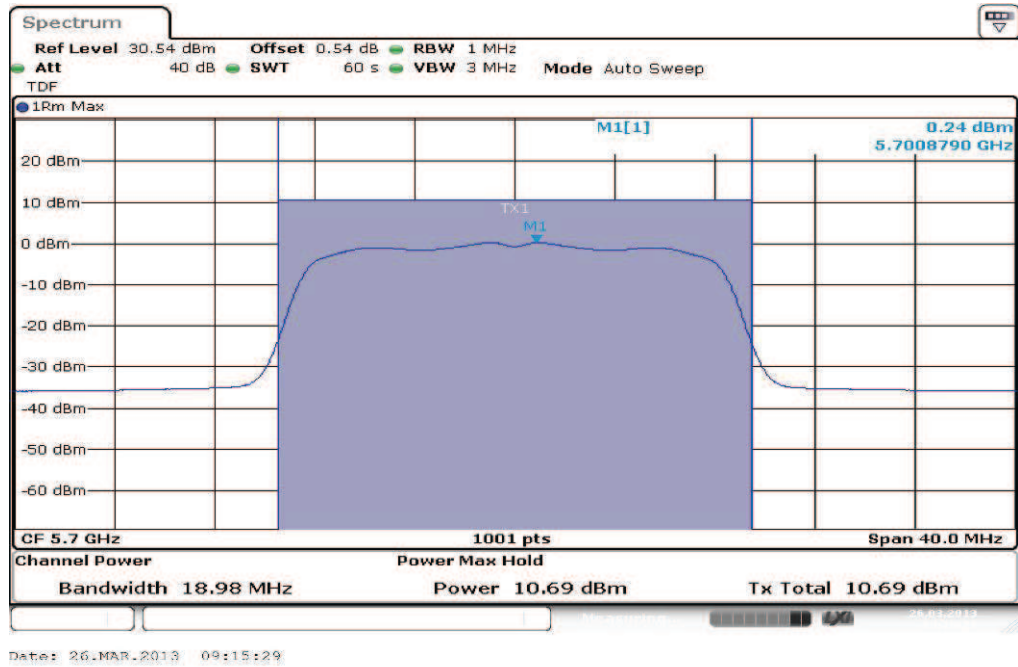
Plot 3: 5320 MHz



Plot 4: 5500 MHz

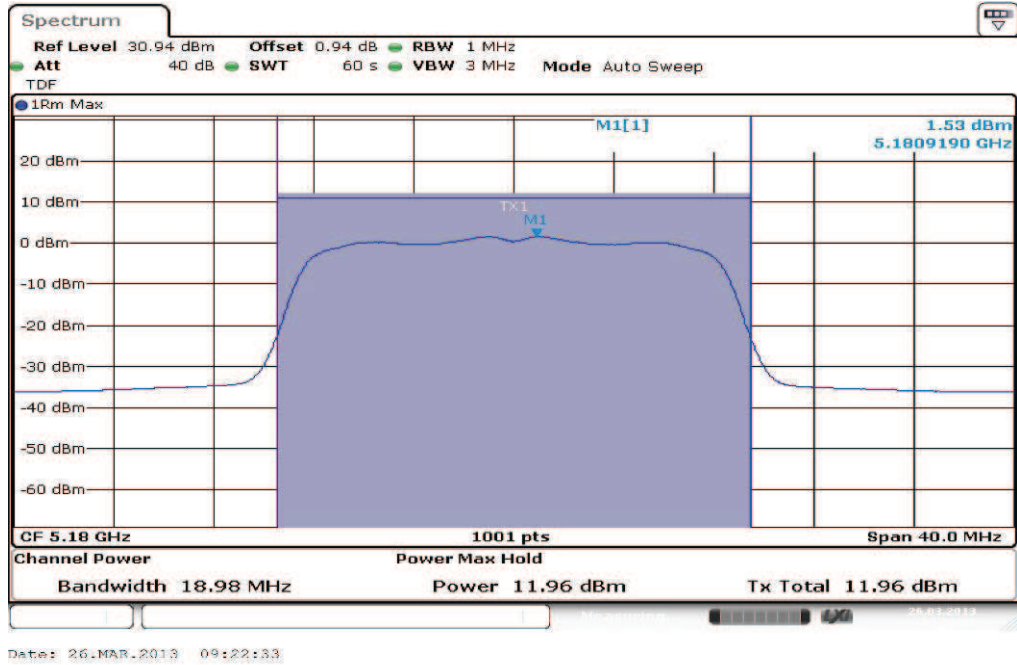


Plot 5: 5700 MHz

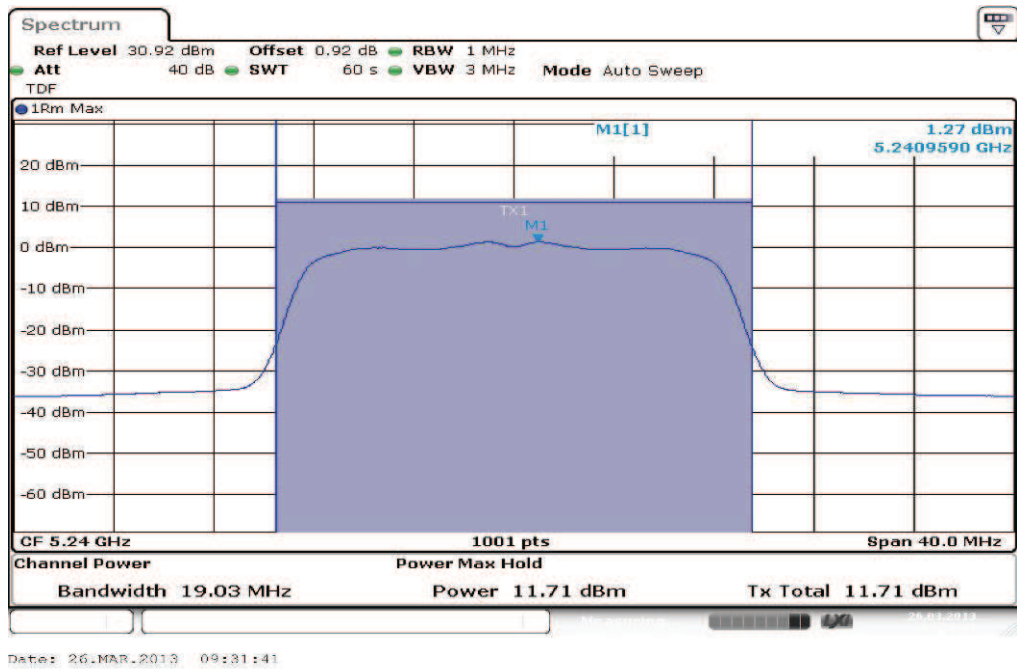


**Plots: OFDM / a – mode 54 Mbps**

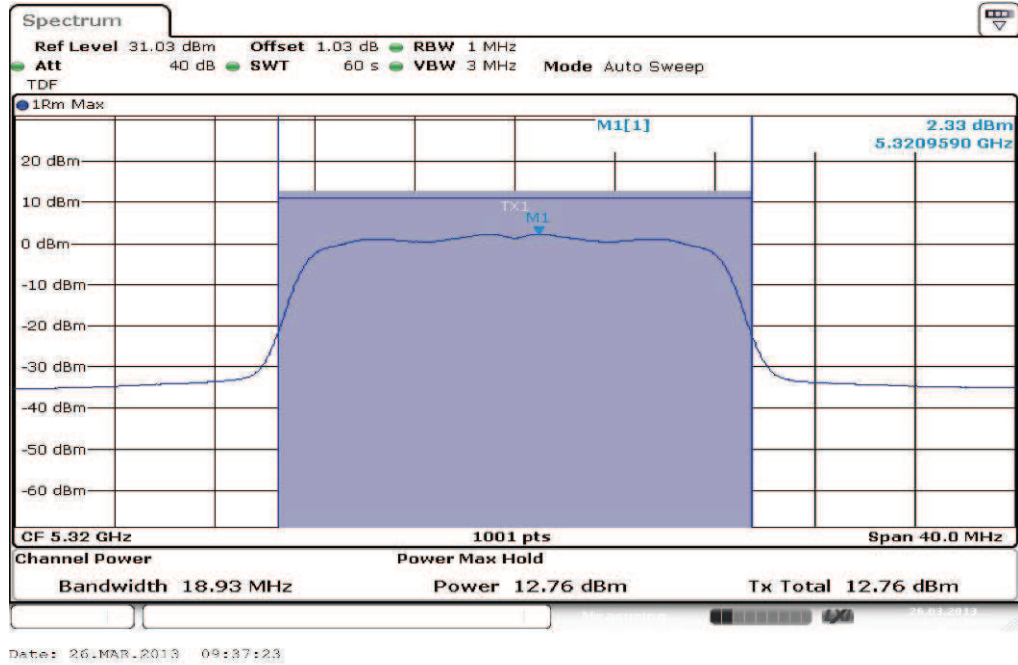
**Plot 1: 5180 MHz**



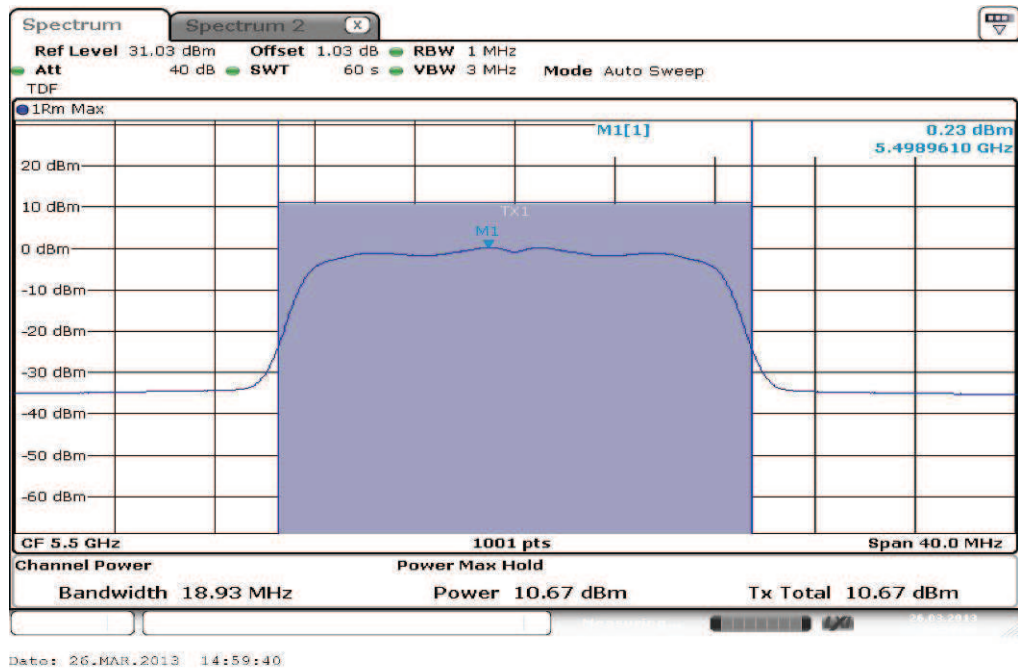
**Plot 2: 5240 MHz**



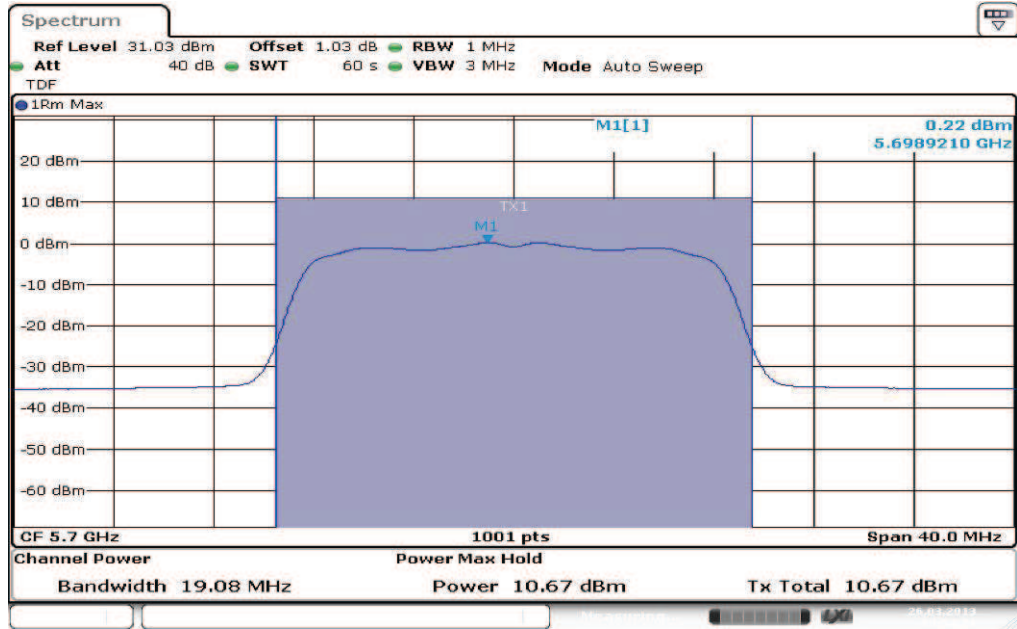
Plot 3: 5320 MHz



Plot 4: 5500 MHz



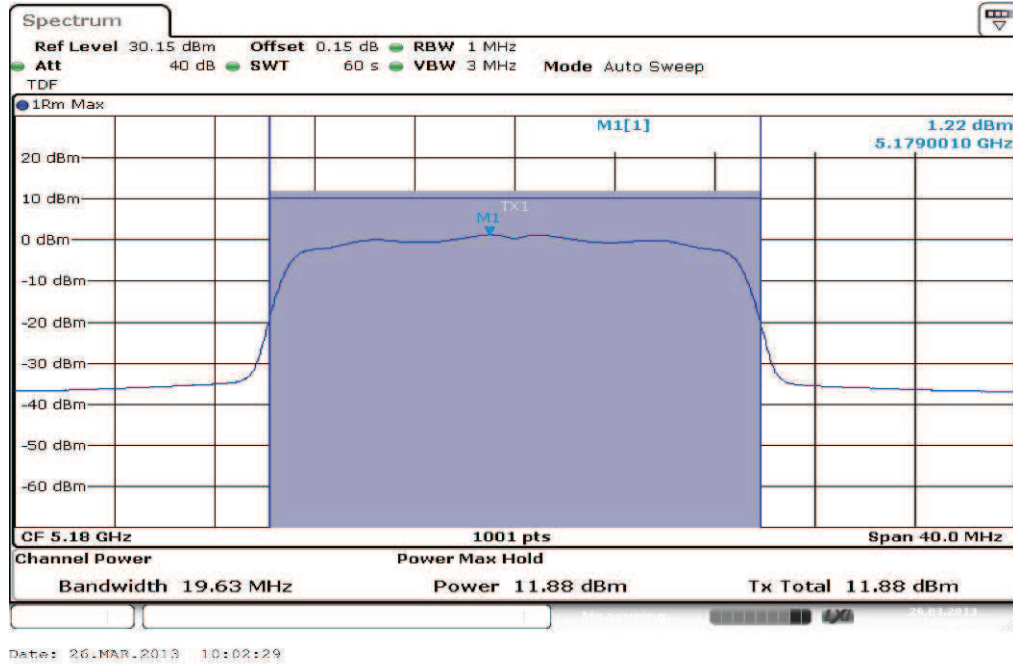
Plot 5: 5700 MHz



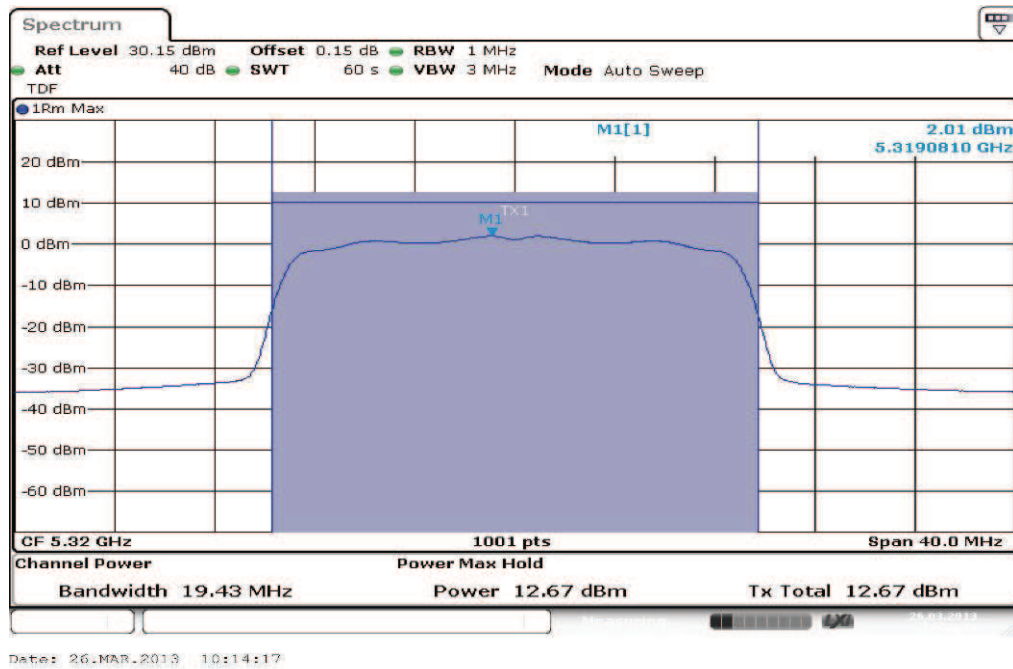
Date: 26.MAR.2013 09:54:22

**Plots: OFDM / n – mode HT20 MCS0**

**Plot 1: 5180 MHz**

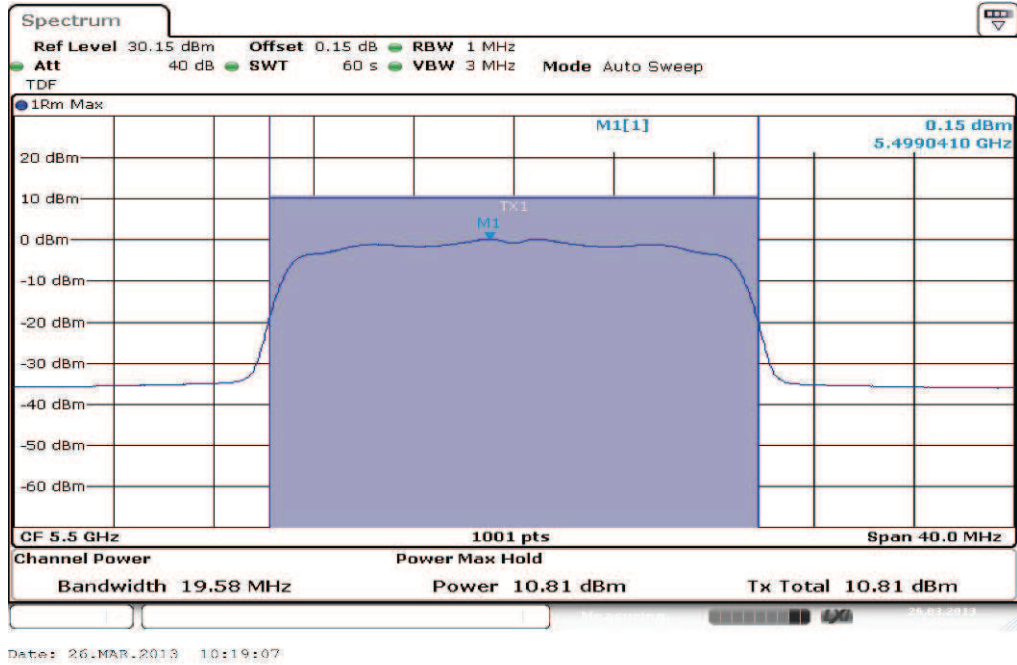


**Plot 2: 5320 MHz**

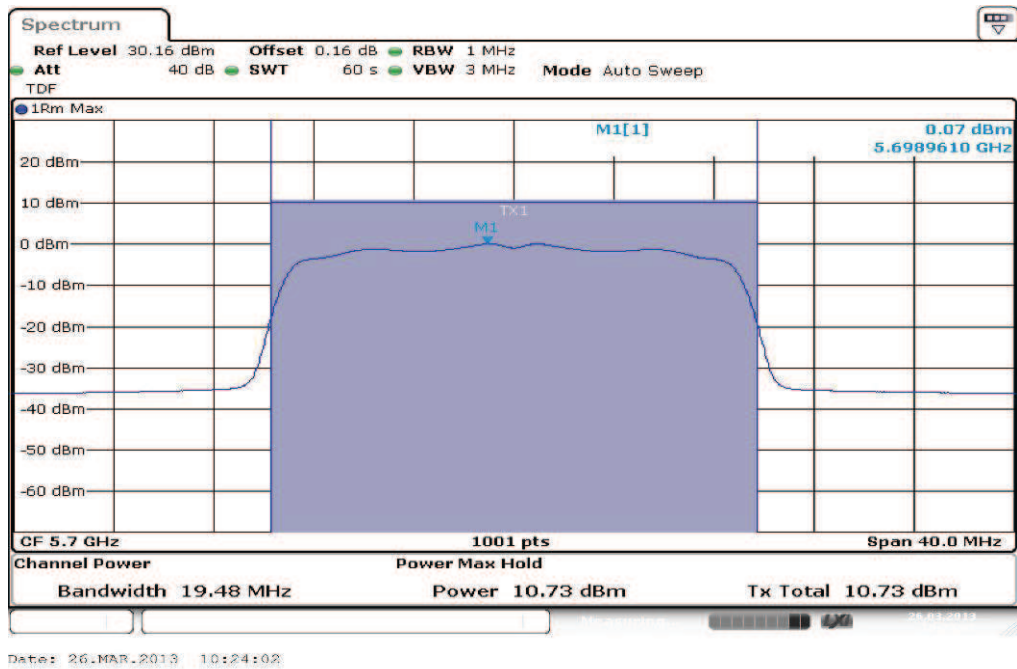




Plot 3: 5500 MHz

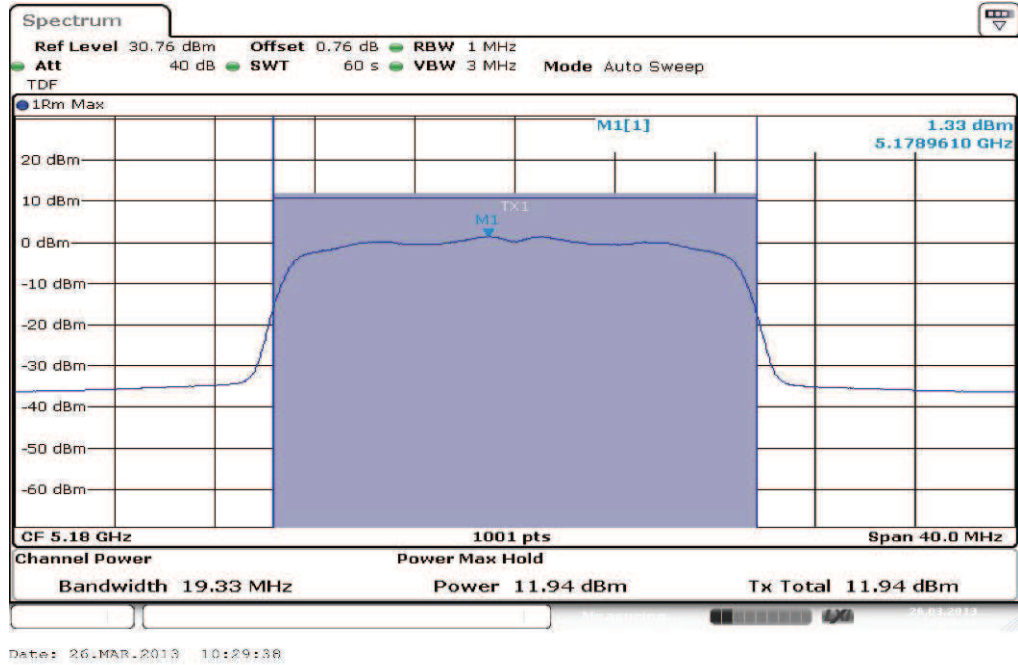


Plot 4: 5700 MHz

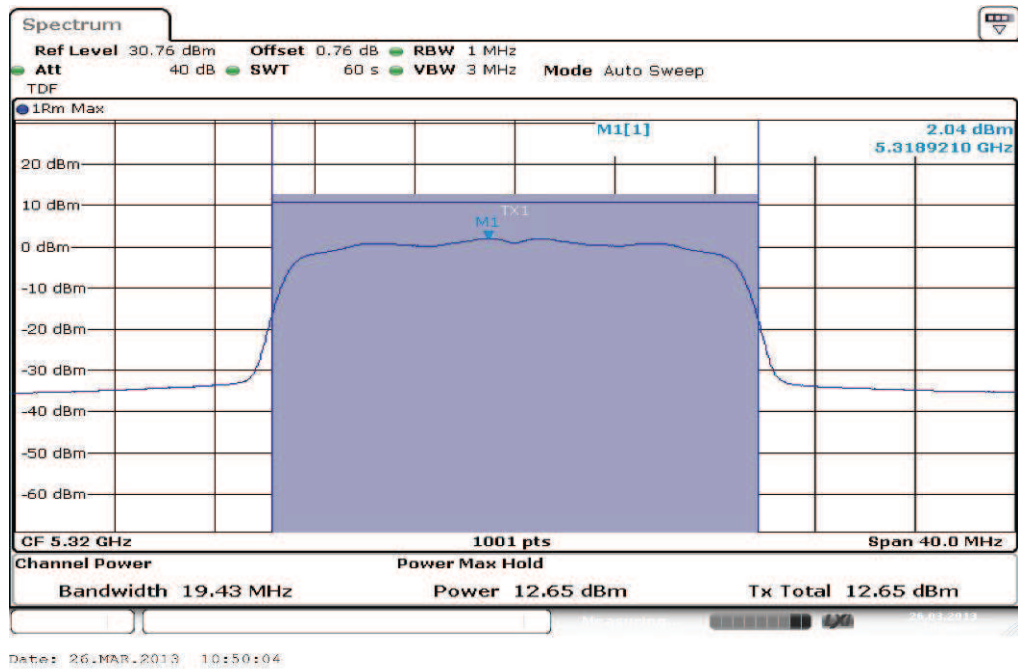


**Plots: OFDM / n – mode HT20 MCS4**

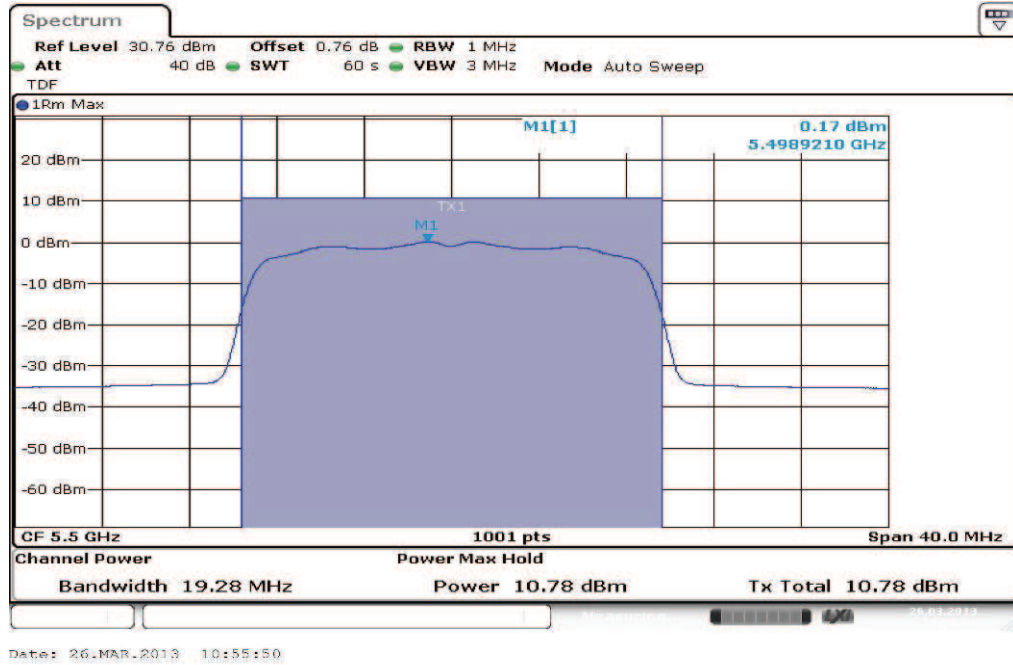
**Plot 5: 5180 MHz**



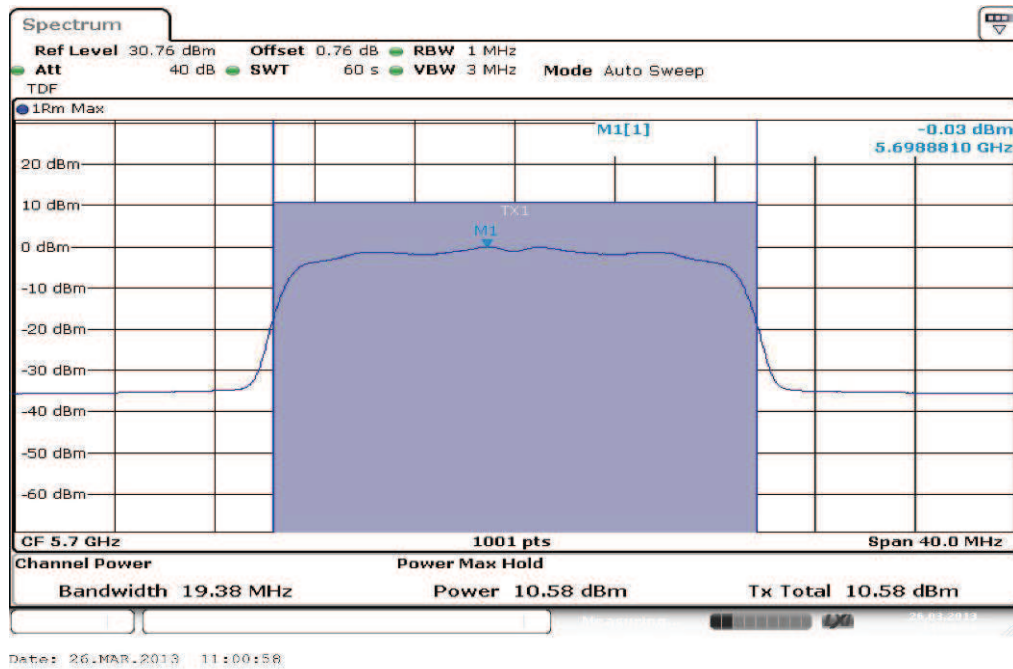
**Plot 6: 5320 MHz**



Plot 7: 5500 MHz

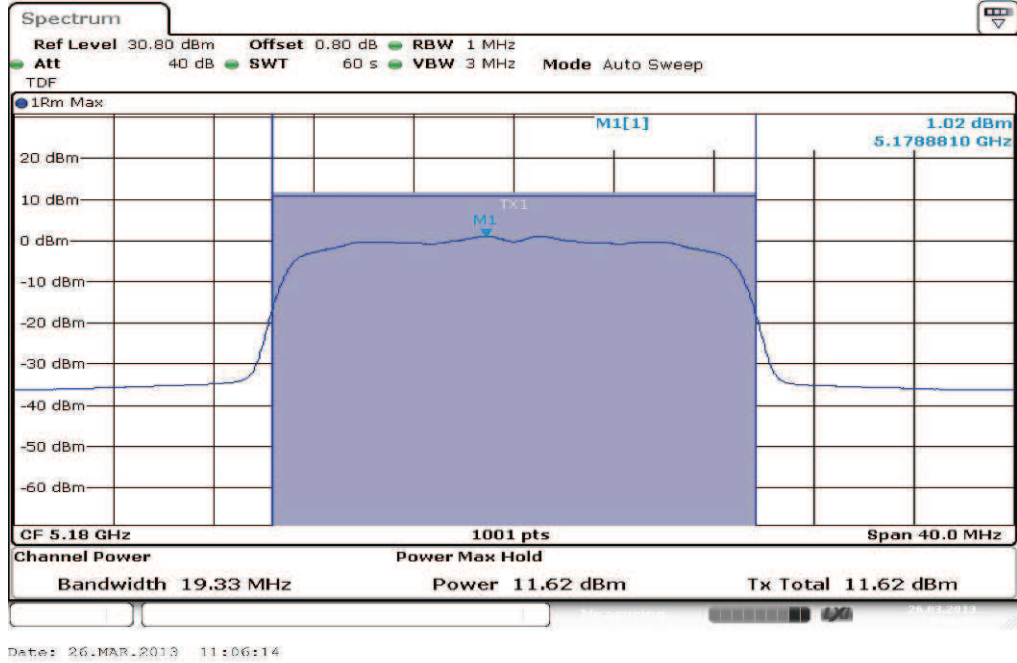


Plot 8: 5700 MHz

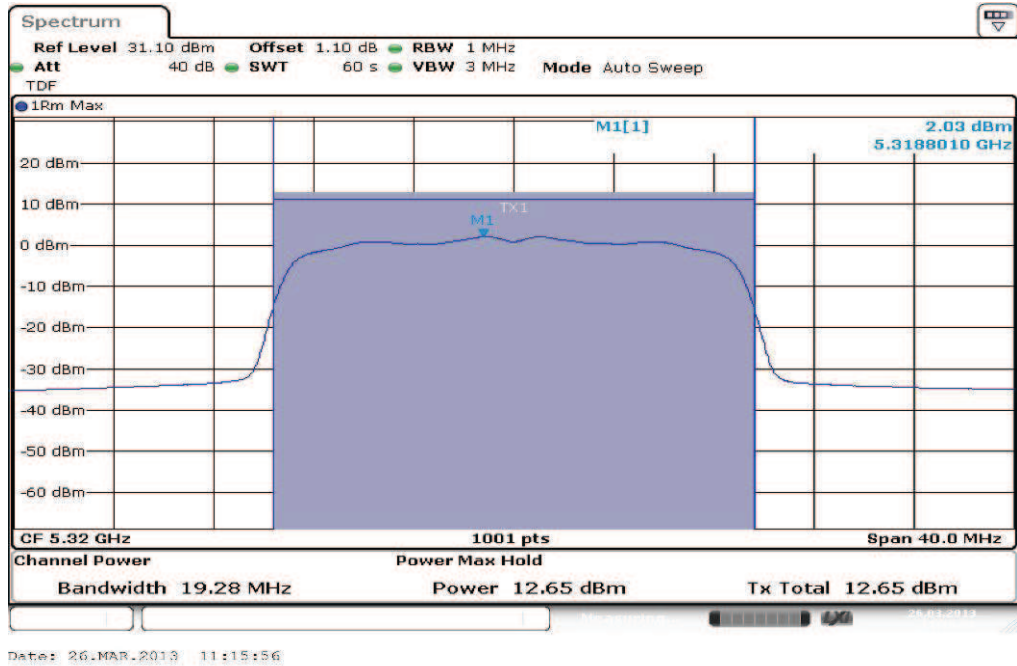


**Plots: OFDM / n – mode HT20 MCS7**

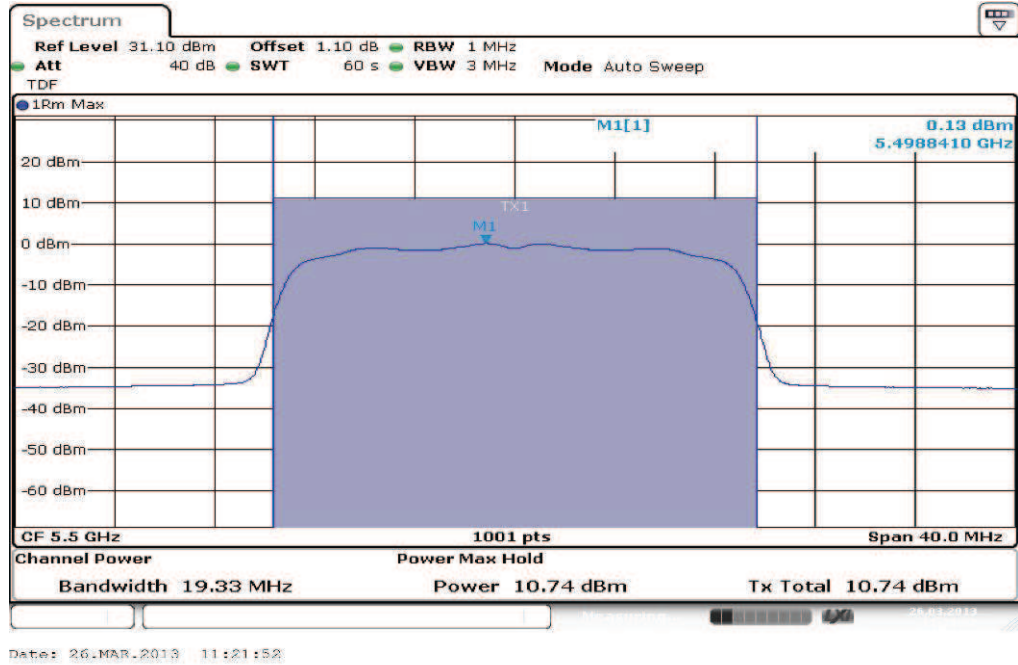
**Plot 1: 5180 MHz**



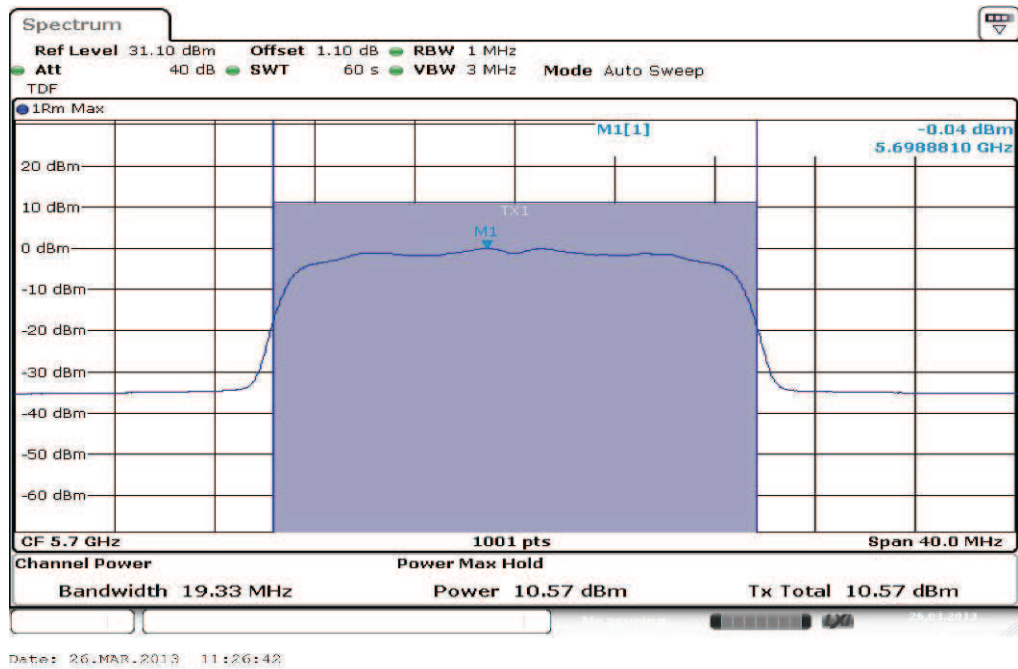
**Plot 2: 5320 MHz**



Plot 3: 5500 MHz



Plot 4: 5700 MHz



## 9.6 Power spectral density

### Description:

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

### Measurement:

Measurement parameter	
Detector:	RMS
Sweep time:	60 s / 120 s
Resolution bandwidth:	1 MHz
Video bandwidth:	≥ 3 MHz
Span:	> EBW
Trace-Mode:	Max hold

### Limits:

Power Spectral Density
power spectral density conducted ≤ 4 dBm in any 1 MHz band (band 5150 – 5250 MHz)
power spectral density conducted ≤ 11 dBm in any 1 MHz band (band 5250 – 5350 MHz)
power spectral density conducted ≤ 11 dBm in any 1 MHz band (band 5470 – 5725 MHz)
power spectral density conducted ≤ 17 dBm in any 1 MHz band (band 5725 – 5825 MHz)