Plot 9: lowest channel, n – mode, MCS 7

Date: 25.MAR.2013 10:56:05
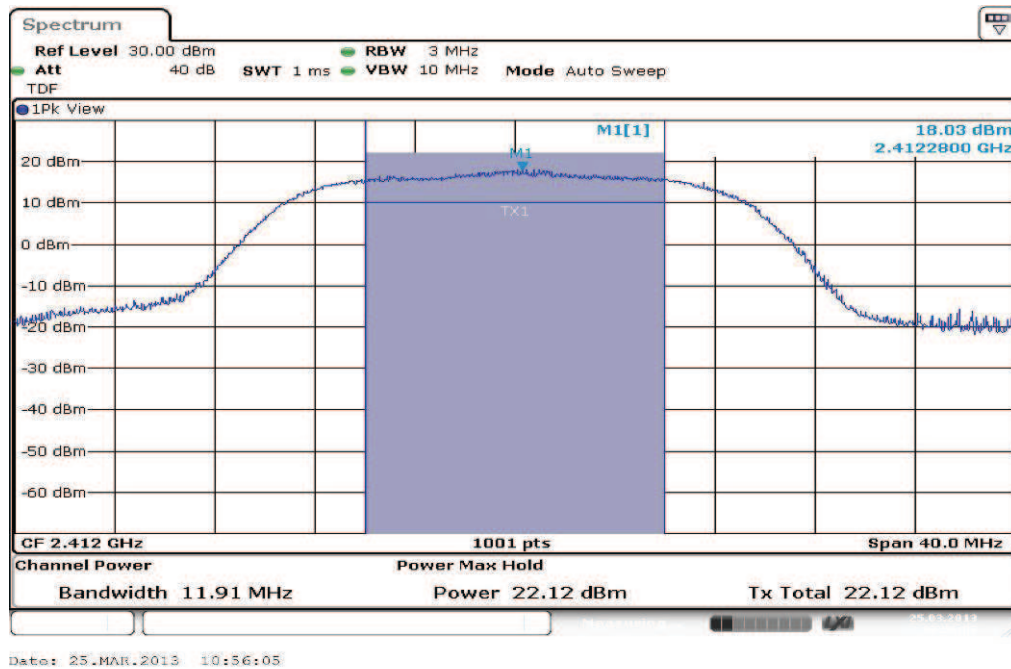
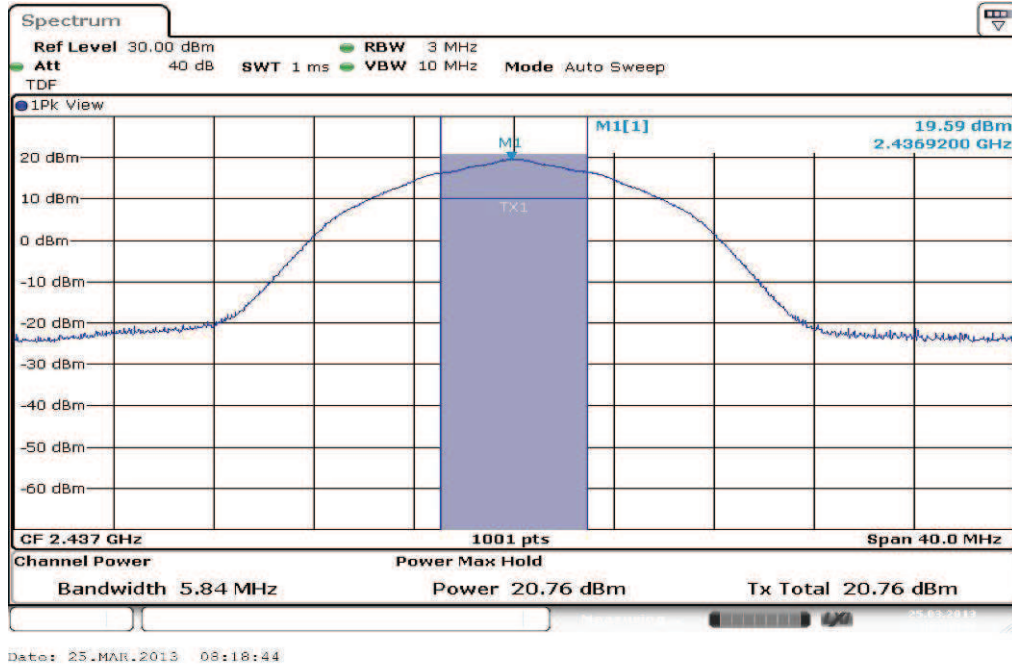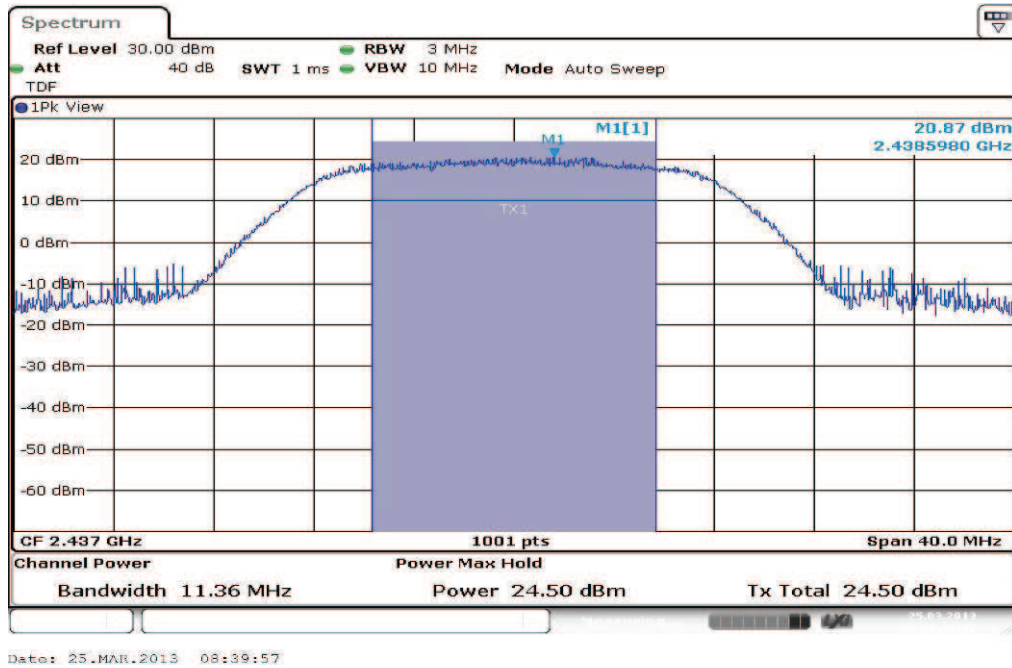**Plot 10:** middle channel, b – mode, 1 Mbps
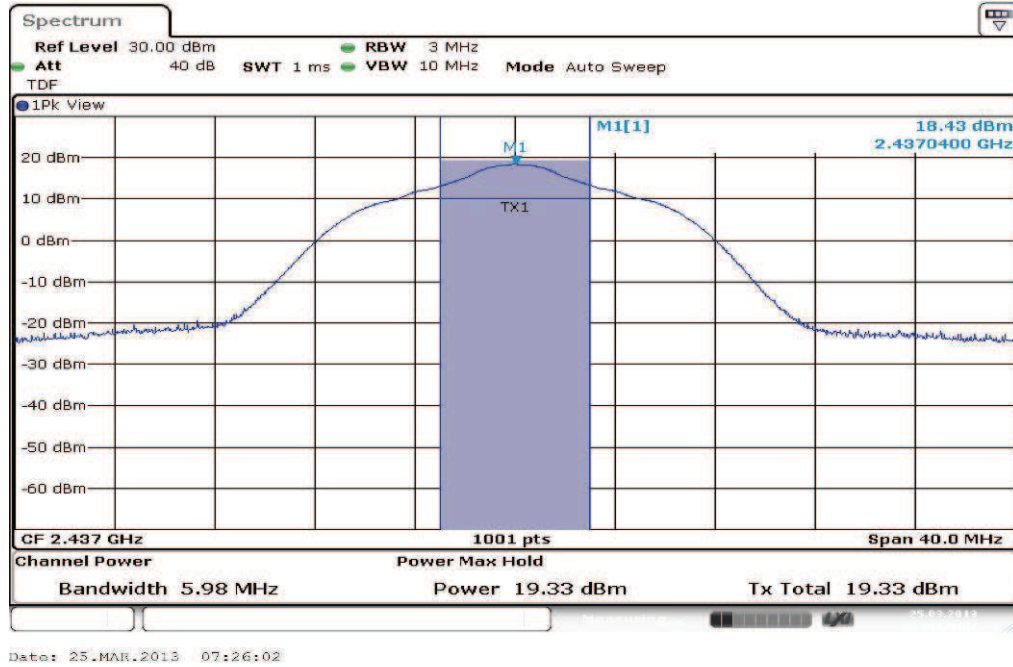
Plot 11: middle channel, b – mode, 5.5 Mbps
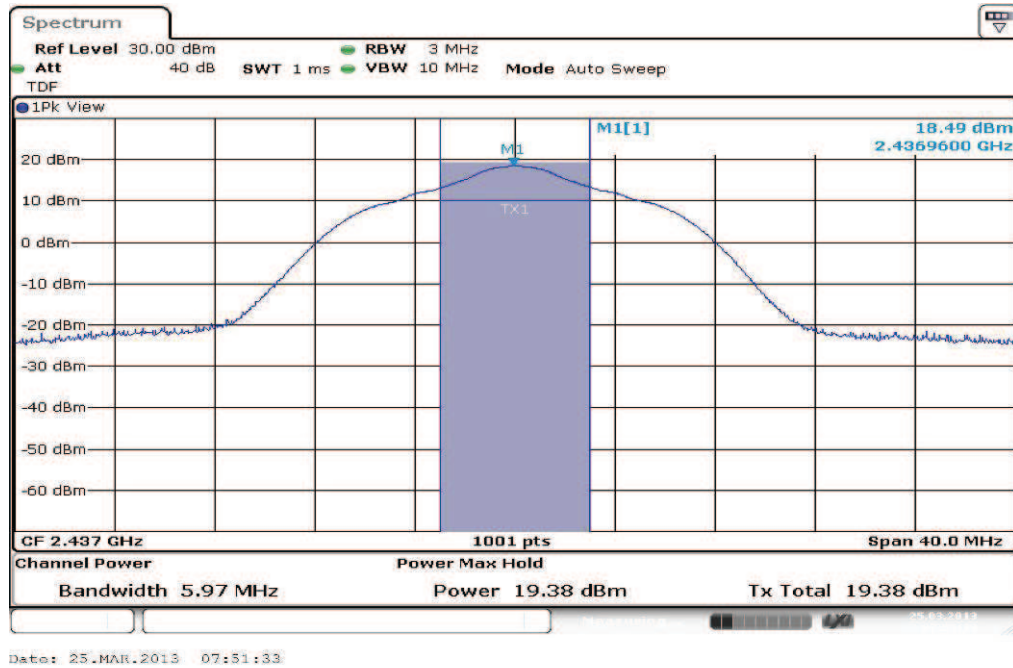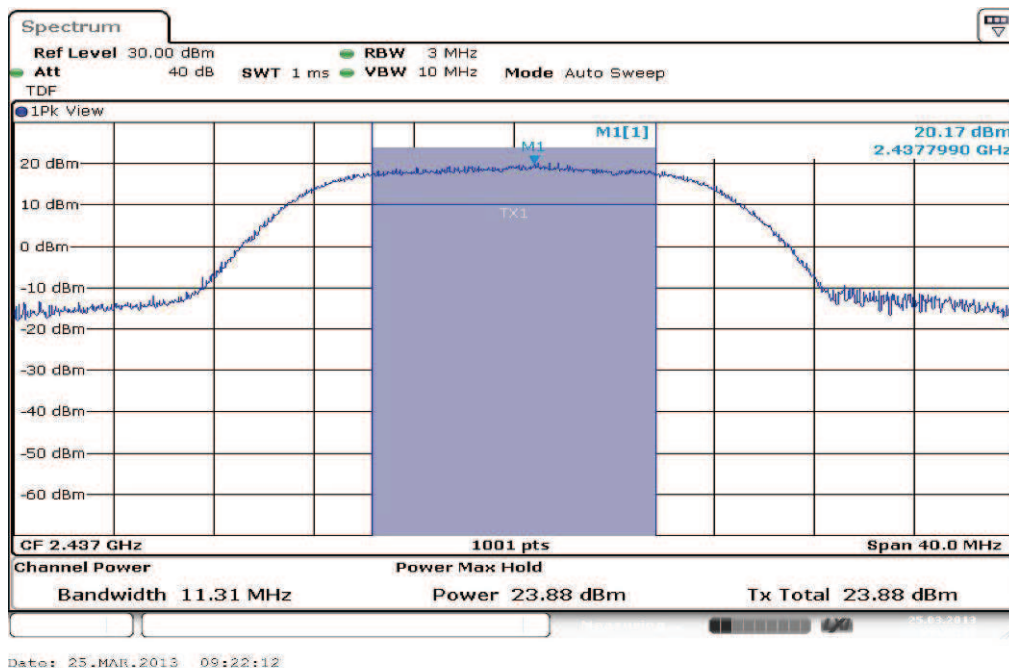
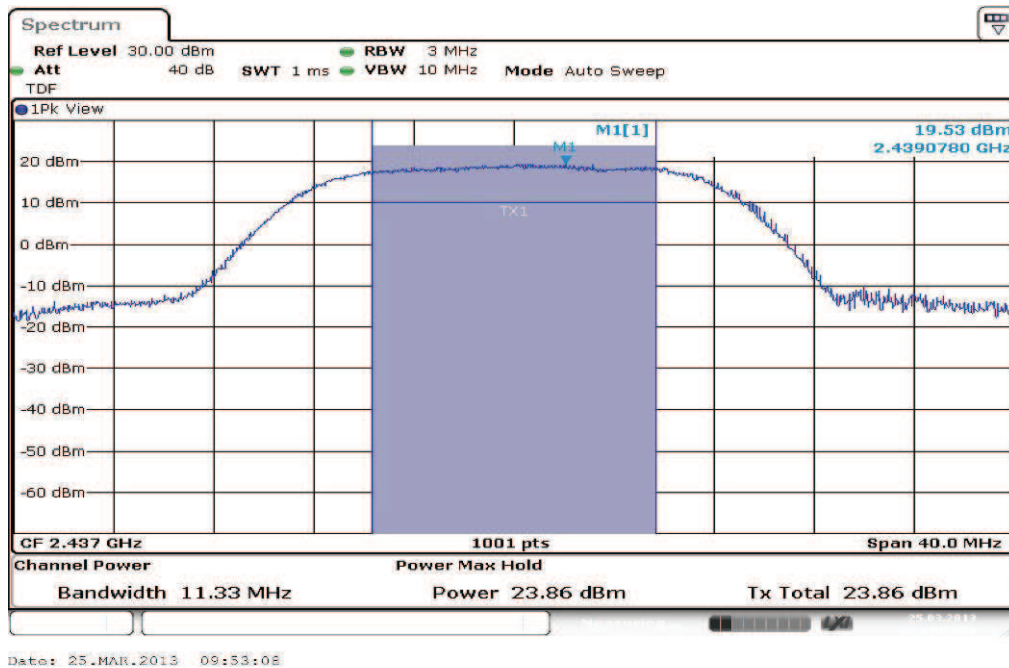**Plot 12:** middle channel, b – mode, 11 Mbps

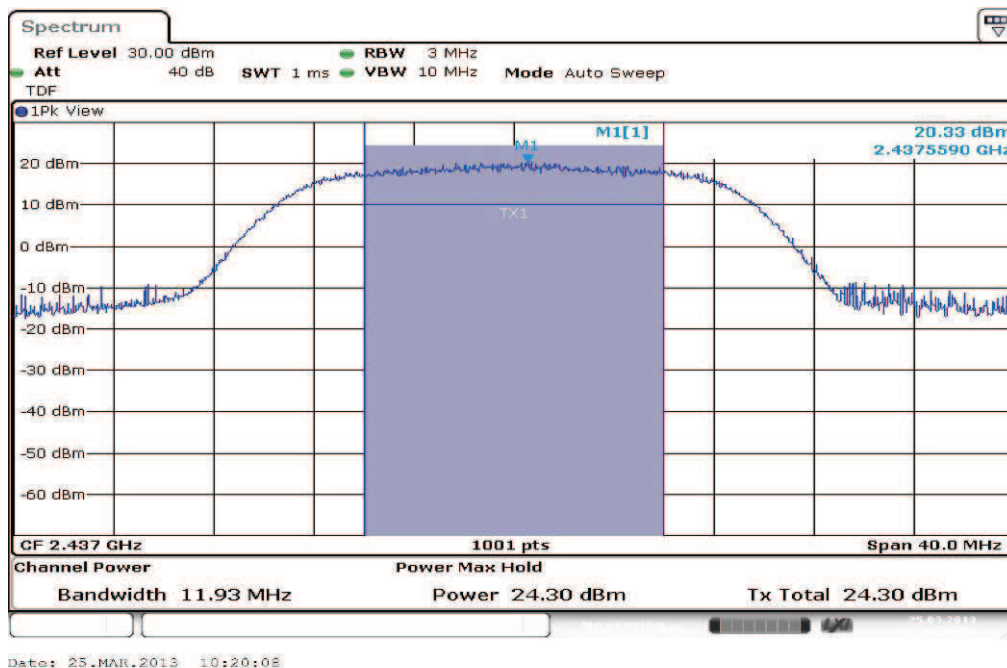**Plot 13:** middle channel, g – mode, 6 Mbps

Plot 14: middle channel, g – mode, 24 Mbps
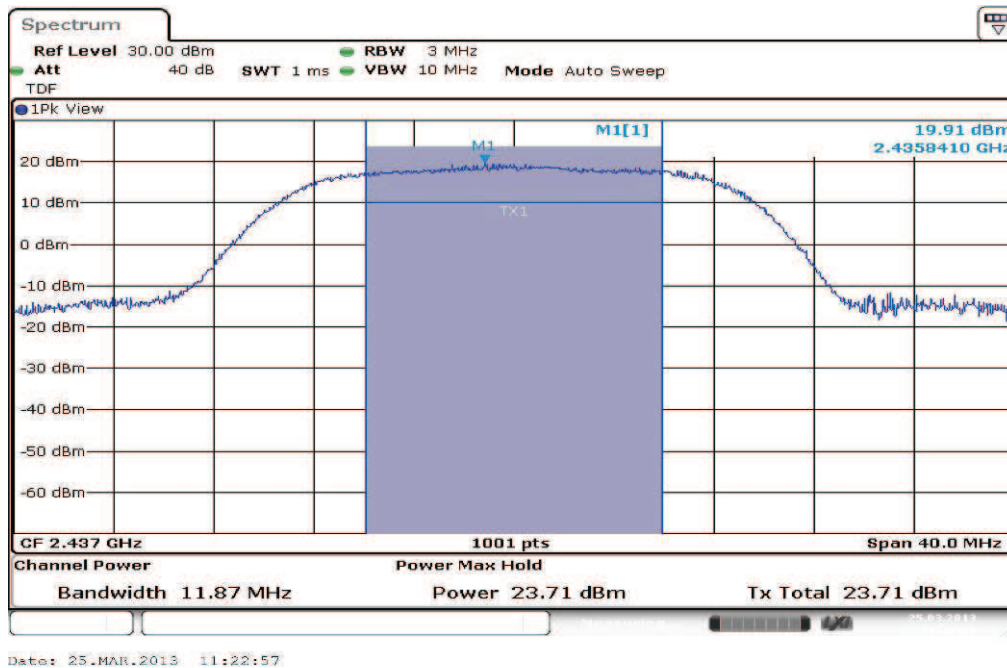

Plot 15: middle channel, g – mode, 54 Mbps

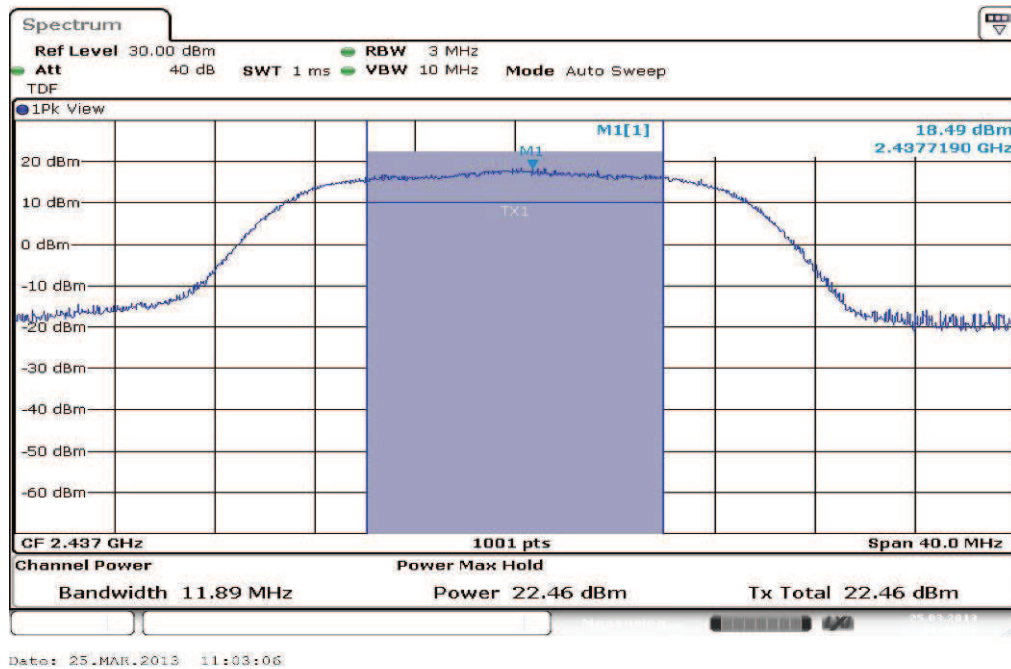**Plot 16:** middle channel, n – mode, MCS 0
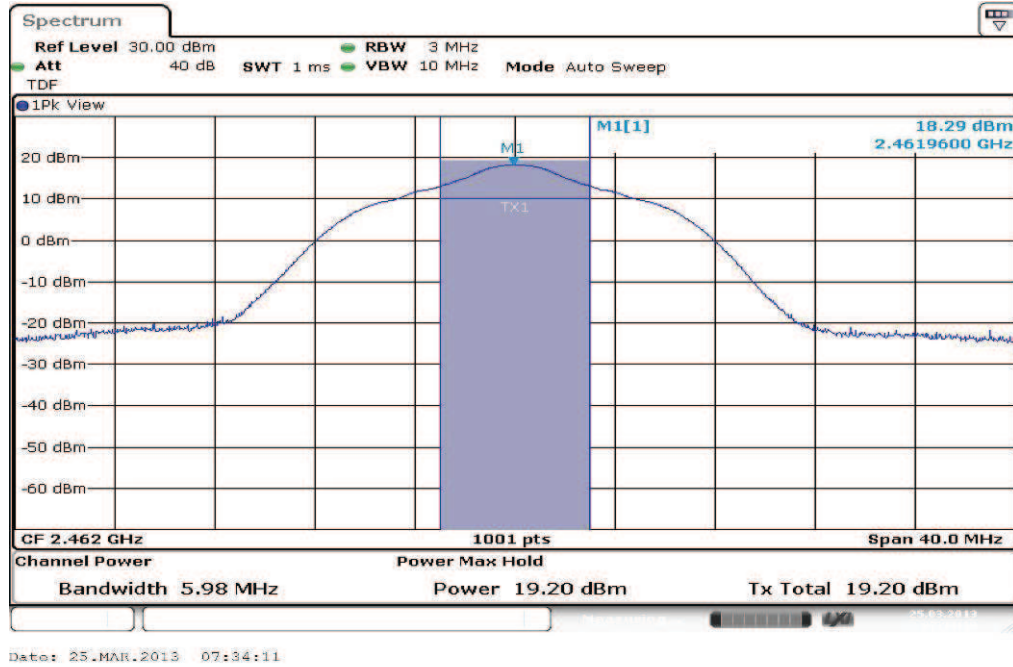

Plot 17: middle channel, n – mode, MCS 4

Plot 18: middle channel, n – mode, MCS 7

Plot 19: highest channel, b – mode, 1 Mbps

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Plot 20: highest channel, b – mode, 5.5 Mbps

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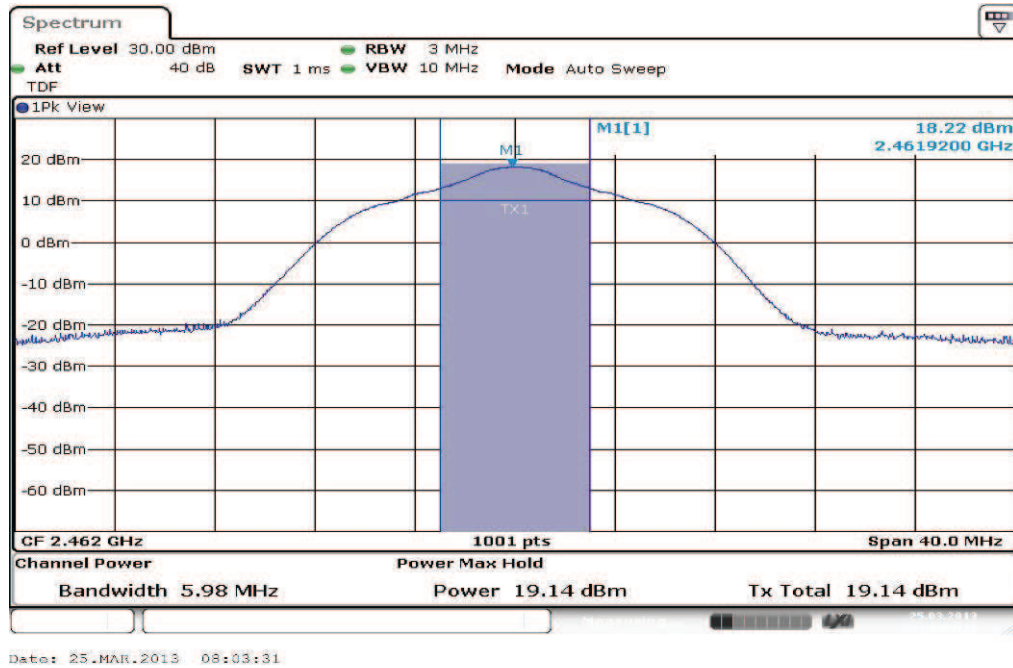
Plot 21: highest channel, b – mode, 11 Mbps

Plot 22: highest channel, g – mode, 6 Mbps
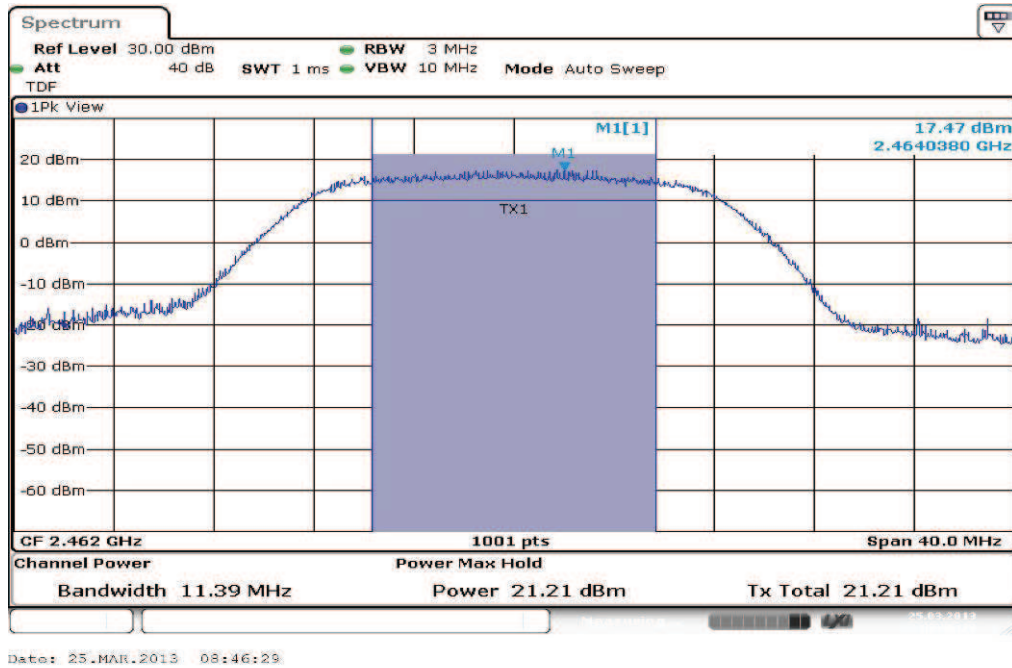
Plot 23: highest channel, g – mode, 24 Mbps

Plot 24: highest channel, g – mode, 54 Mbps

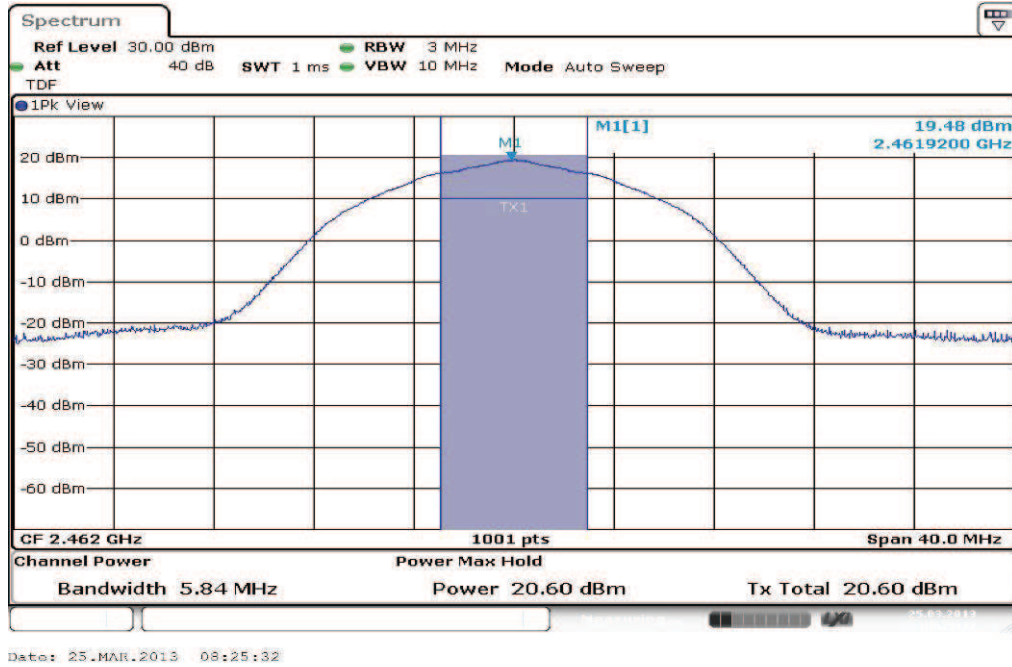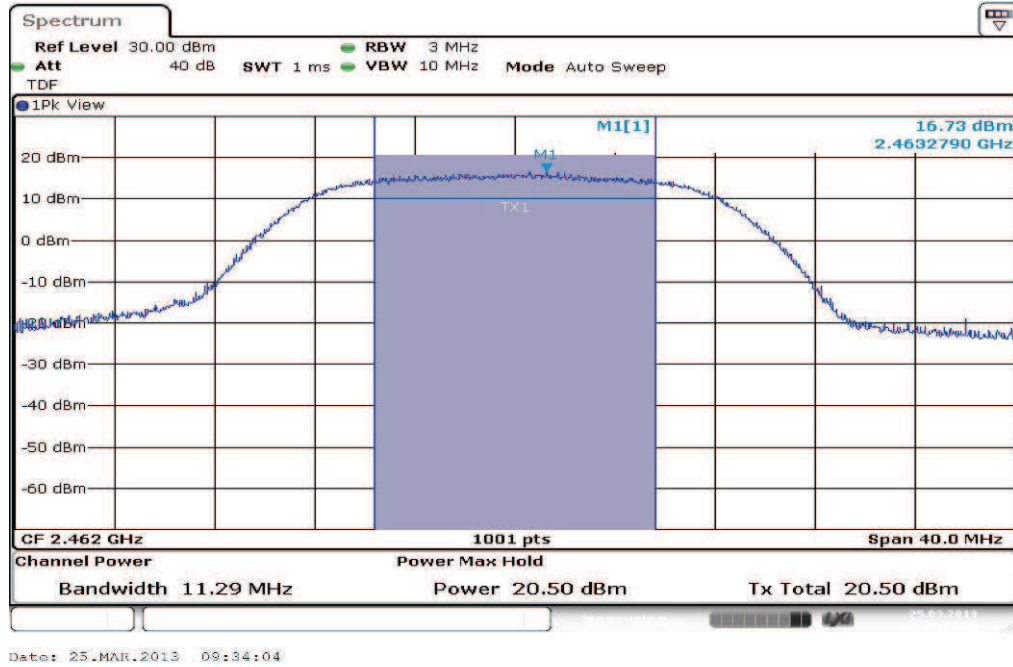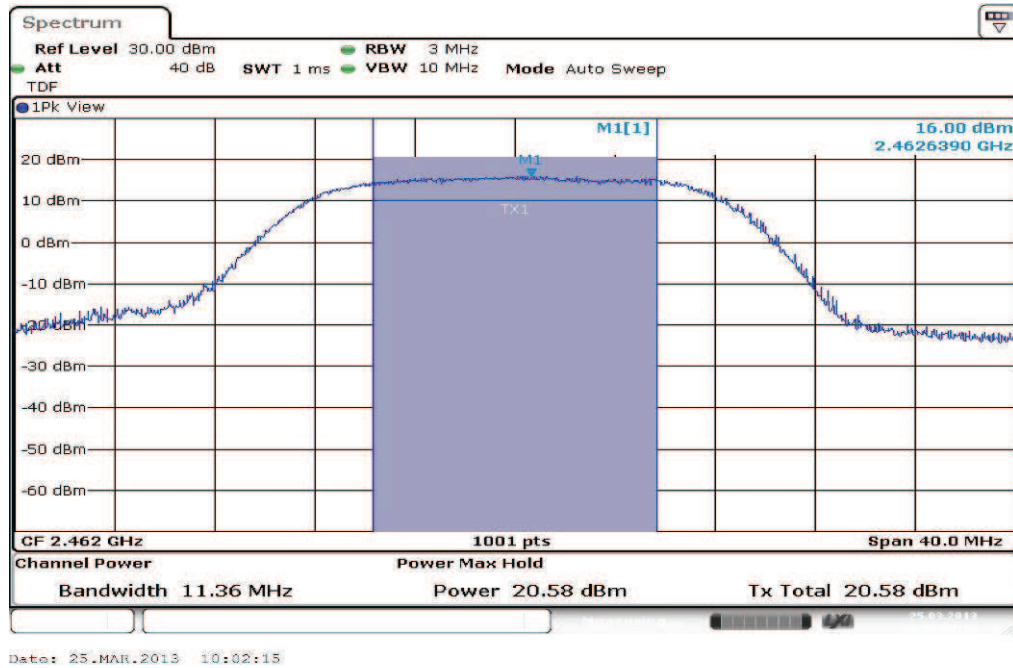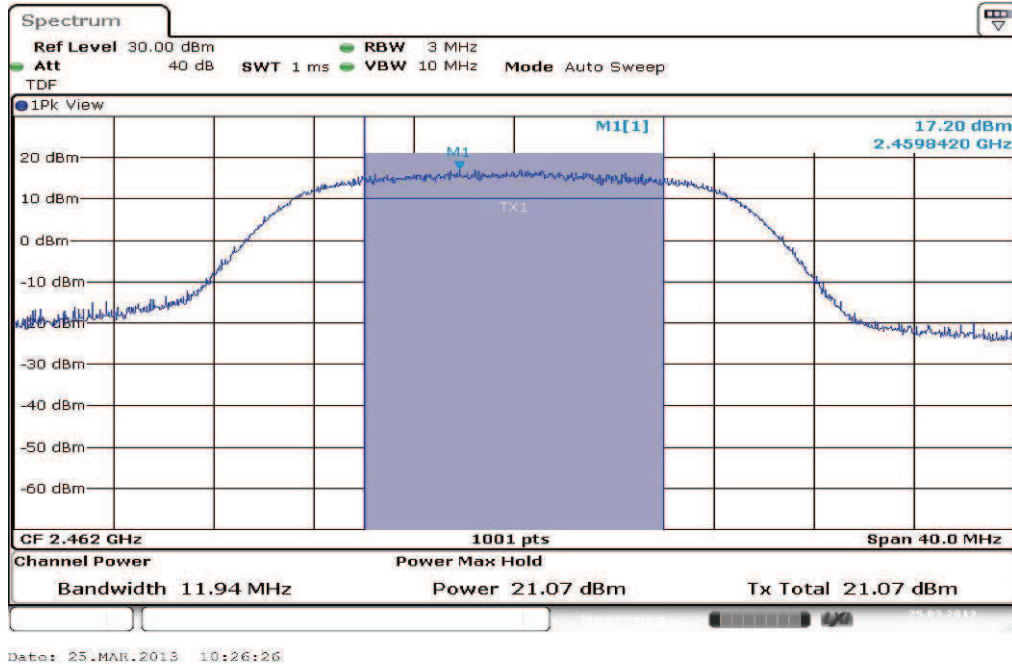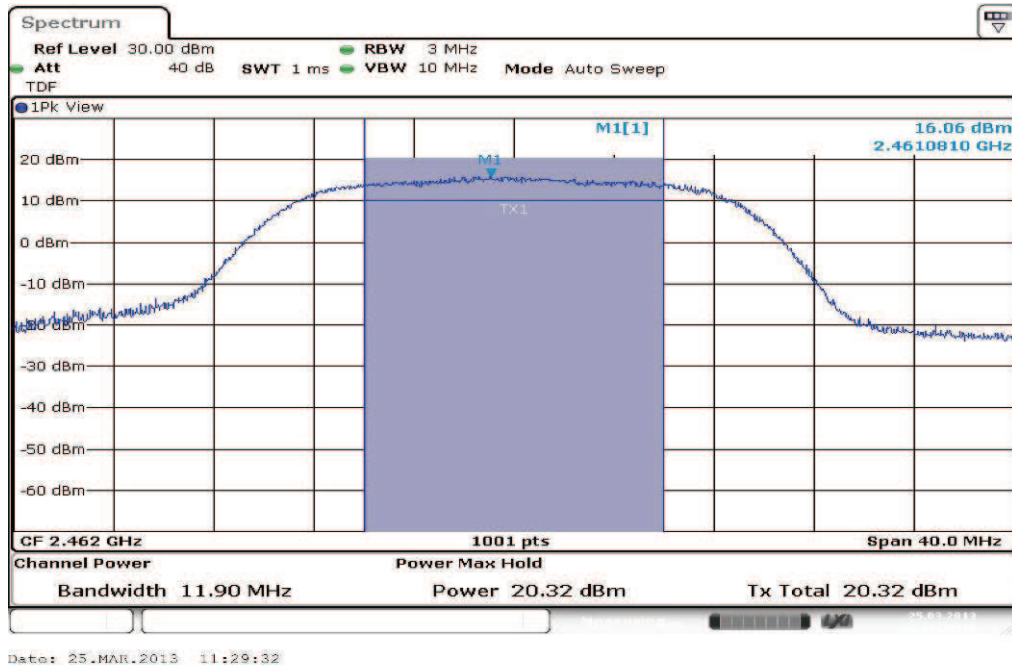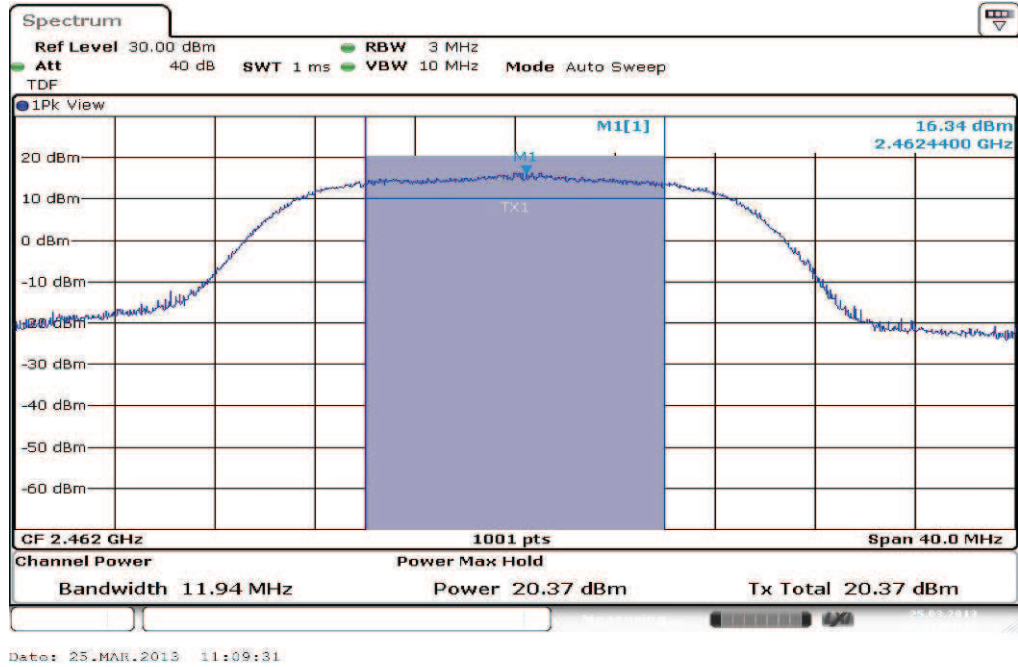**Plot 25:** highest channel, n – mode, MCS 0

Plot 26: highest channel, n – mode, MCS 4

Plot 27: highest channel, n – mode, MCS 7

9.5 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:	Auto
Resolution bandwidth:	≥ 3 kHz
Video bandwidth:	≥ 3 x RBW
Span:	1.5 times of the DTS BW
Trace-Mode:	Max hold (allow trace to fully stabilize)

Limits:

FCC	IC
Power Spectral Density	
8 dBm (conducted)	

Results:

Technology / data rate	Power Spectral density [dBm]		
Frequency	2412 MHz	2437 MHz	2462 MHz
DSSS / b – mode, 1 Mbps	-4.96	-4.36	-5.40
DSSS / b – mode, 5.5 Mbps	-5.26	-5.12	-4.97
DSSS / b – mode, 11 Mbps	-6.45	-5.54	-6.52
OFDM / g – mode, 6 Mbps	-10.24	-9.36	-12.32
OFDM / g – mode, 24 Mbps	-8.88	-8.96	-12.02
OFDM / g – mode, 54 Mbps	-9.75	-10.40	-13.37
OFDM / n – mode, MCS 0	-10.27	-10.52	-13.62
OFDM / n – mode, MCS 4	-11.19	-10.71	-13.94
OFDM / n – mode, MCS 7	-12.65	-11.89	-13.68
Measurement uncertainty	± RBW		

Result: Passed

Plots:

Plot 1: lowest channel, b – mode, 1 Mbps

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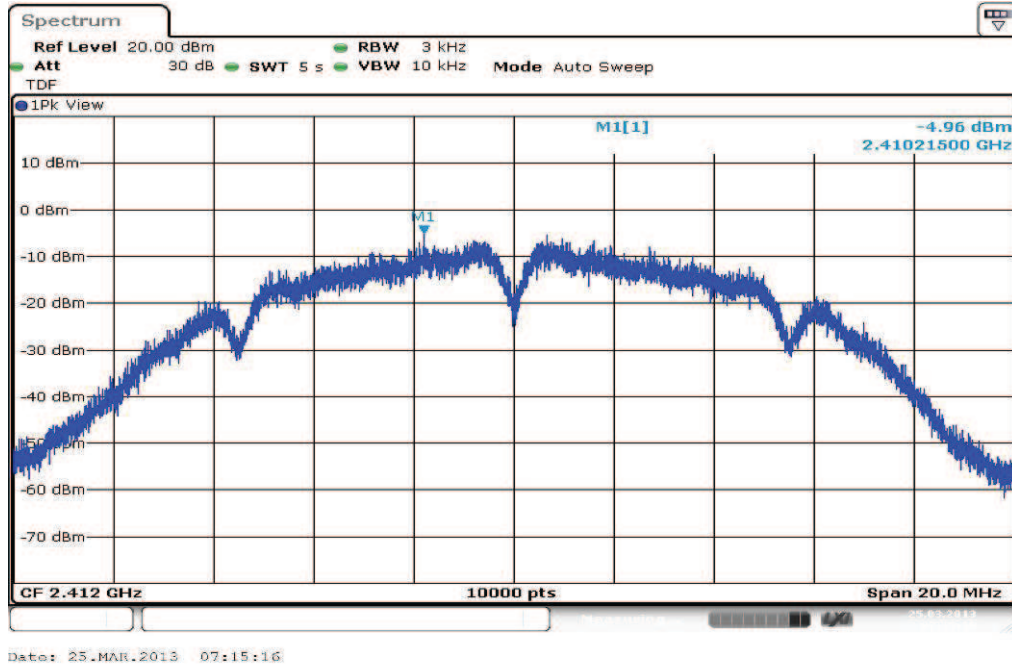
Plot 2: lowest channel, b – mode, 5.5 Mbps

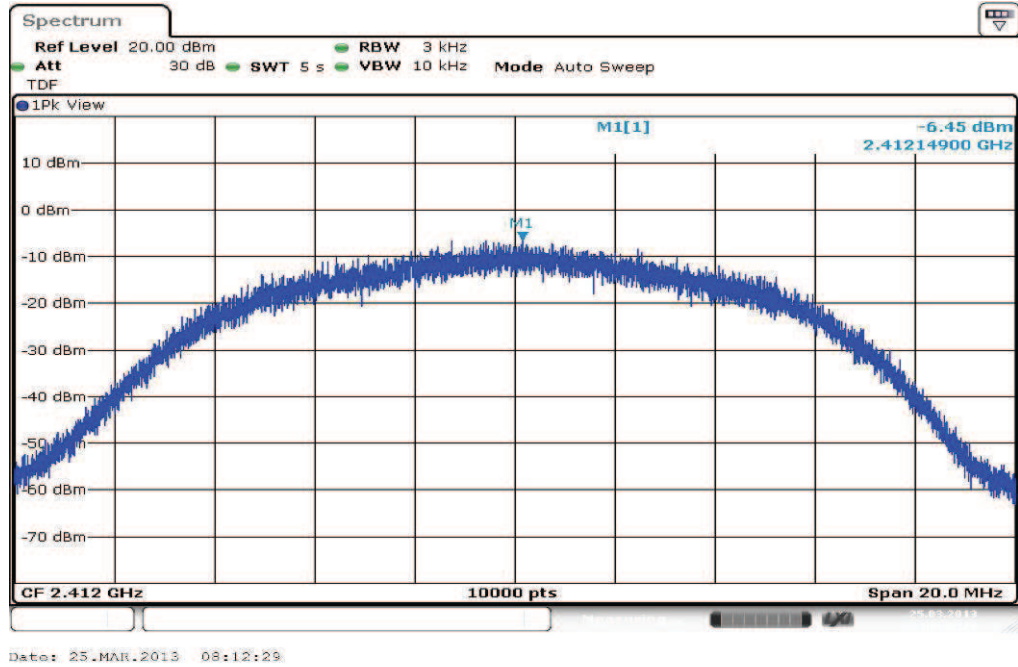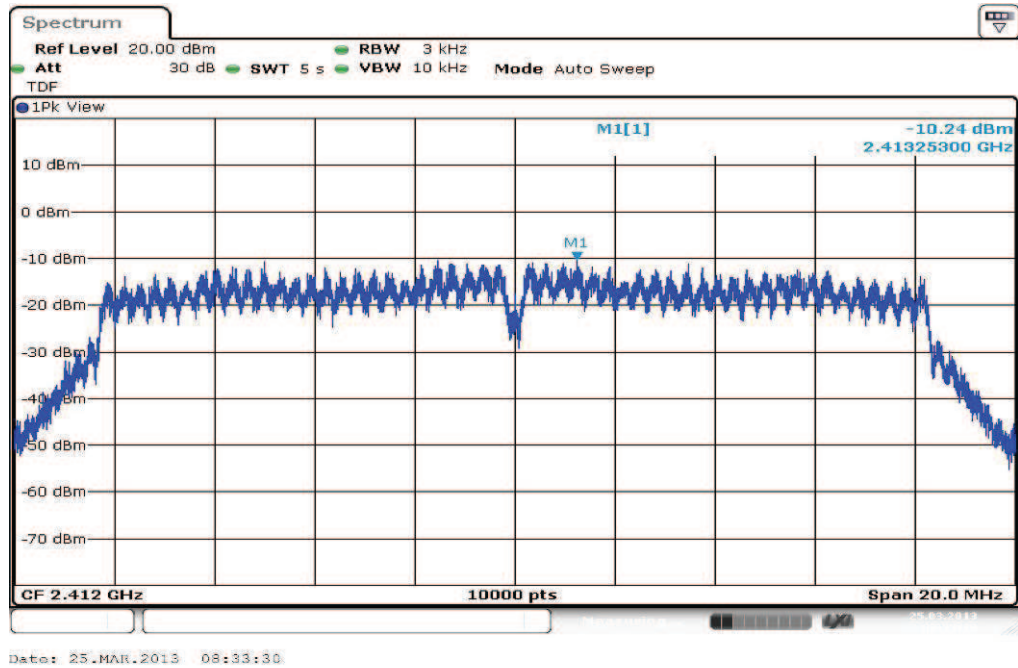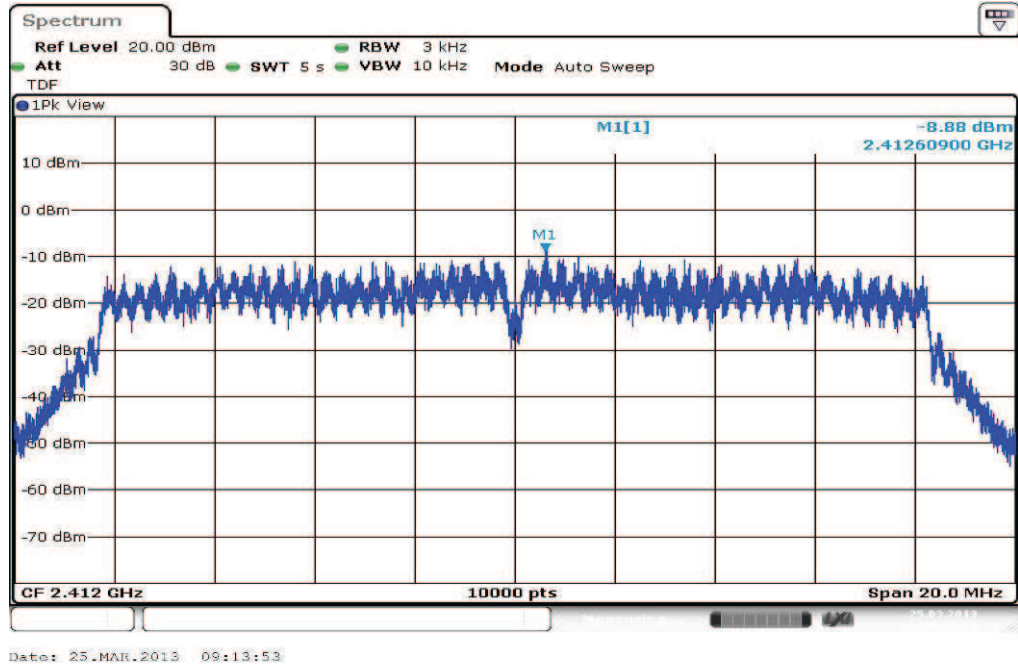Date: 25.MAR.2013 07:44:35
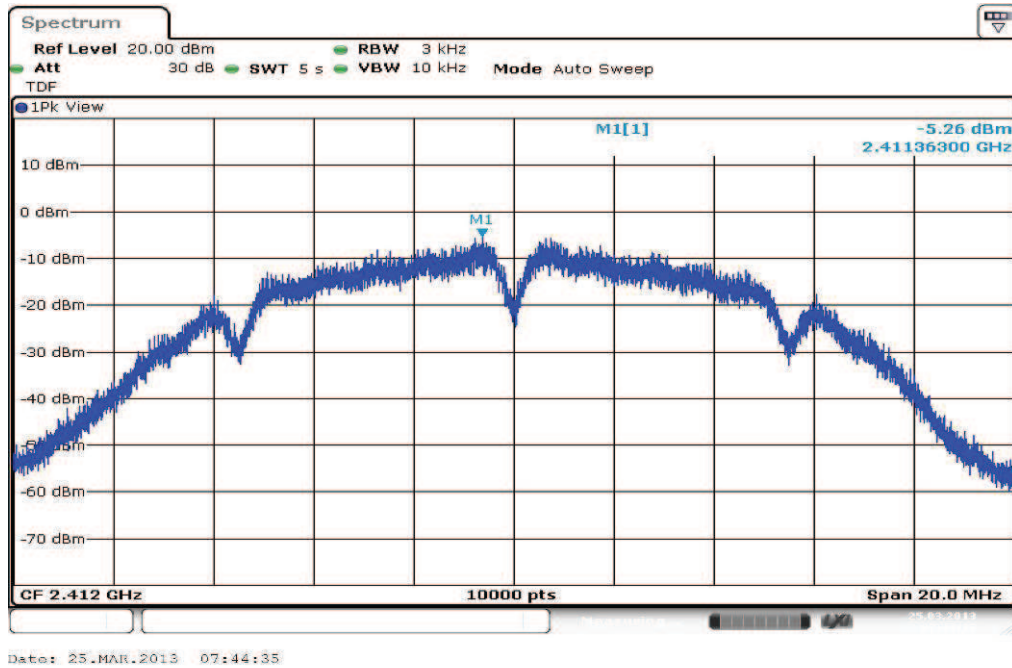
Plot 3: lowest channel, b – mode, 11 Mbps

Plot 4: lowest channel, g – mode, 6 Mbps

Plot 5: lowest channel, g – mode, 24 Mbps

Plot 6: lowest channel, g – mode, 54 Mbps