

12.7 Spectrum bandwidth – 26 dB bandwidth

Description:

Measurement of the 26 dB bandwidth of the modulated signal.

Measurement:

Measurement parameter	
According to: KDB789033 D02, C.1.	
Detector:	Peak
Sweep time:	Auto
Resolution bandwidth:	1% EBW
Video bandwidth:	\geq RBW
Span:	> complete signal!
Trace-Mode:	Max hold
Used test setup:	see chapter 7.4 – A
Measurement uncertainty:	see chapter 9

Limits:

Spectrum Bandwidth – 26 dB Bandwidth

-/-

Result: antenna port 1

OFDM / a – mode	26 dB bandwidth [MHz]			
	5180 MHz	5200 MHz	5300 MHz	5320 MHz
Channel	23.33	23.63	22.93	23.68
Channel	5500 MHz	5600 MHz	5700 MHz	-/-
	23.33	22.68	22.73	-/-
Channel	5745 MHz	5705 MHz	5805 MHz	5825 MHz
	23.68	24.08	23.23	23.58

OFDM / n HT20 – mode	26 dB bandwidth [MHz]			
	5180 MHz	5200 MHz	5300 MHz	5320 MHz
Channel	23.73	23.33	23.73	23.73
Channel	5500 MHz	5600 MHz	5700 MHz	-/-
	23.43	23.63	23.93	-/-
Channel	5745 MHz	5765 MHz	5805 MHz	5825 MHz
	24.03	22.98	23.83	23.53

OFDM / n HT40 – mode	26 dB bandwidth [MHz]			
	5190 MHz	5230 MHz	5270 MHz	5310 MHz
Channel	46.75	46.45	47.55	48.25
Channel	5510 MHz	5550 MHz	5630 MHz	5670 MHz
	46.55	48.85	47.95	46.85
Channel	5755 MHz	5795 MHz	-/-	-/-
	47.05	45.85	-/-	-/-

Result: antenna port 2

OFDM / a – mode	26 dB bandwidth [MHz]			
	5180 MHz	5200 MHz	5300 MHz	5320 MHz
Channel	23.13	23.83	22.73	23.23
Channel	5500 MHz	5600 MHz	5700 MHz	-/-
	23.38	23.08	22.63	-/-
Channel	5745 MHz	5765 MHz	5805 MHz	5825 MHz
	22.98	23.88	22.63	23.23

OFDM / n HT20 – mode	26 dB bandwidth [MHz]			
	5180 MHz	5200 MHz	5300 MHz	5320 MHz
Channel	24.23	24.53	24.08	24.38
Channel	5500 MHz	5600 MHz	5700 MHz	-/-
	23.53	23.33	23.78	-/-
Channel	5745 MHz	5765 MHz	5805 MHz	5825 MHz
	23.63	23.73	23.83	23.68

OFDM / n HT40 – mode	26 dB bandwidth [MHz]			
	5190 MHz	5230 MHz	5270 MHz	5310 MHz
Channel	47.25	47.65	47.45	47.85
Channel	5510 MHz	5550 MHz	5630 MHz	5670 MHz
	48.25	48.05	48.65	48.65
Channel	5755 MHz	5795 MHz	-/-	-/-
	47.75	47.65	-/-	-/-

Result: antenna port 3

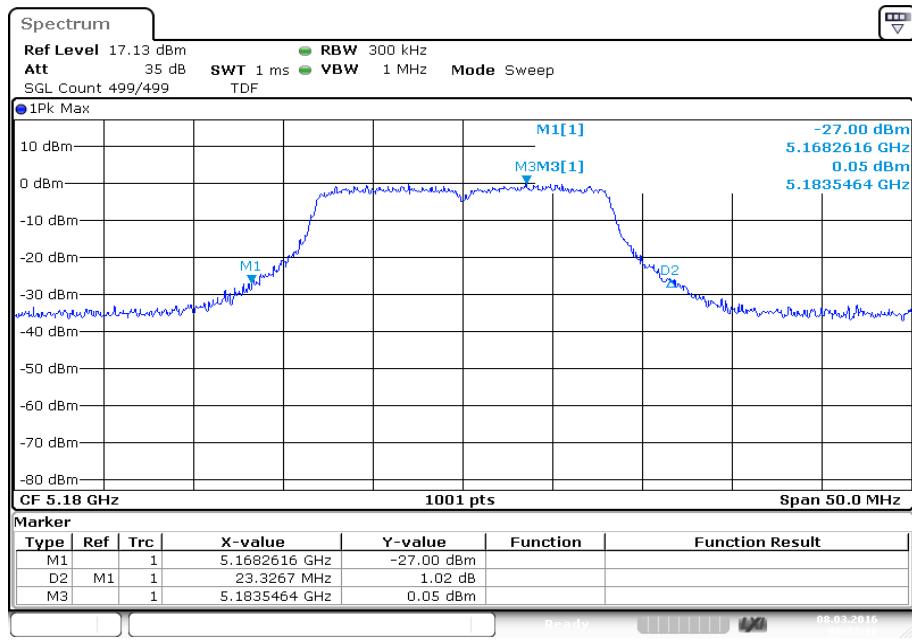
OFDM / a – mode	26 dB bandwidth [MHz]			
	5180 MHz	5200 MHz	5300 MHz	5320 MHz
Channel	23.53	23.28	23.13	23.33
Channel	5500 MHz	5600 MHz	5700 MHz	-/-
	22.88	23.38	22.63	-/-
Channel	5745 MHz	5765 MHz	5805 MHz	5825 MHz
	23.28	23.73	23.33	22.58

OFDM / n HT20 – mode	26 dB bandwidth [MHz]			
	5180 MHz	5200 MHz	5300 MHz	5320 MHz
Channel	23.88	23.78	23.48	23.33
Channel	5500 MHz	5600 MHz	5700 MHz	-/-
	23.73	23.68	23.33	-/-
Channel	5745 MHz	5765 MHz	5805 MHz	5825 MHz
	24.73	23.83	24.48	23.28

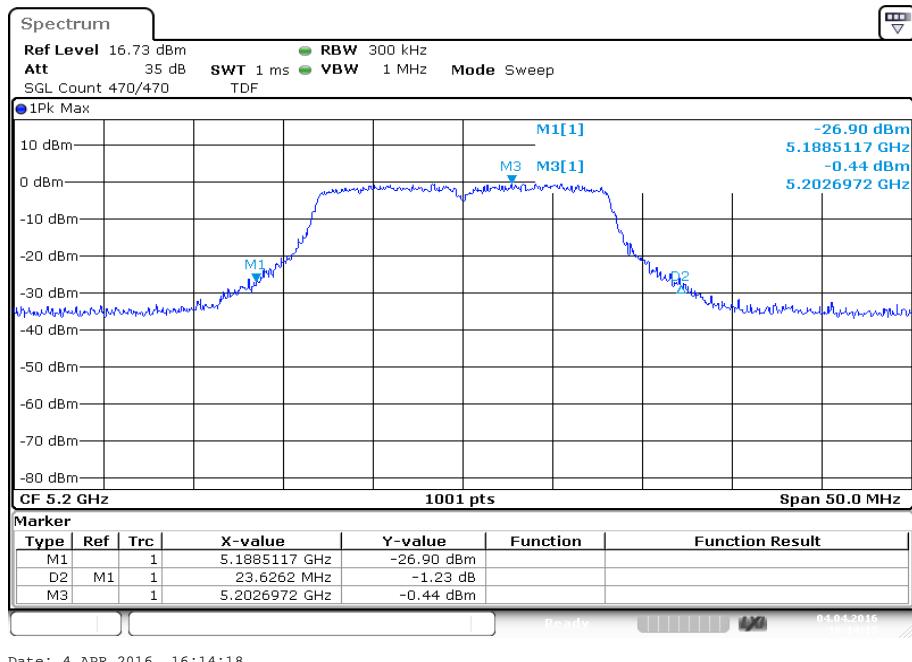
OFDM / n HT40 – mode	26 dB bandwidth [MHz]			
	5190 MHz	5230 MHz	5270 MHz	5310 MHz
Channel	47.55	48.75	47.05	47.45
Channel	5510 MHz	5550 MHz	5630 MHz	5670 MHz
	47.75	47.25	48.35	47.85
Channel	5755 MHz	5795 MHz	-/-	-/-
	49.45	48.35	-/-	-/-

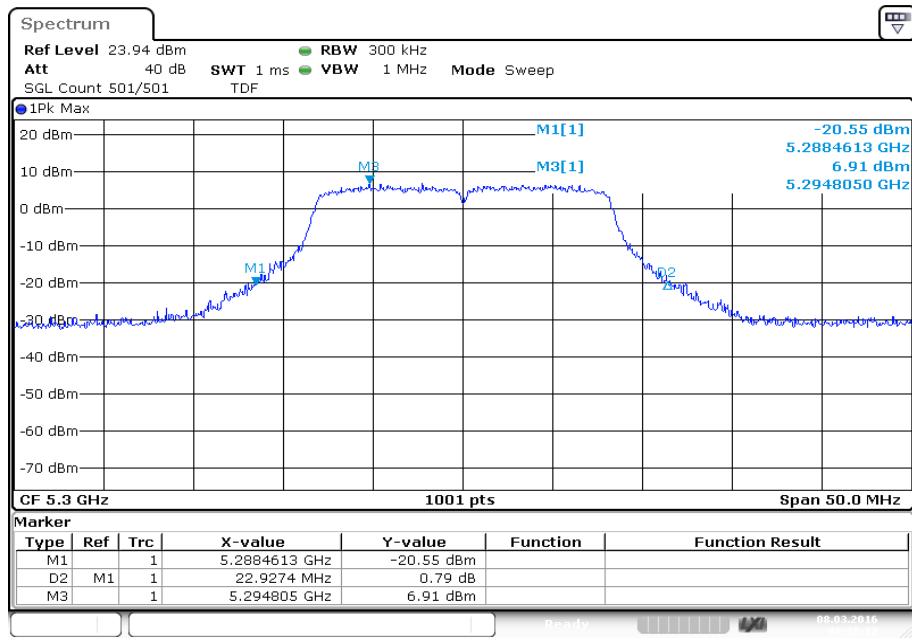
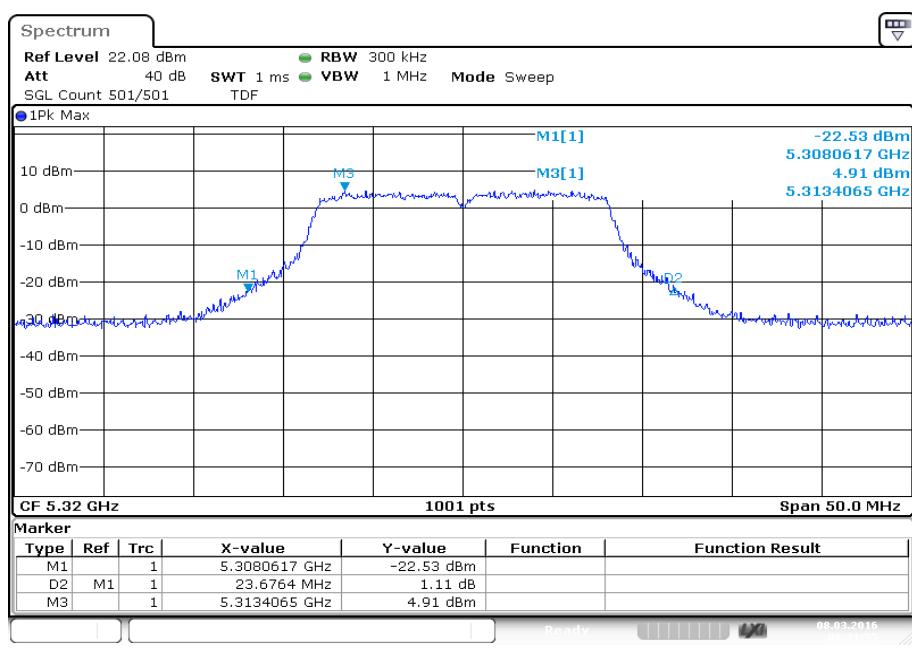
Plots: OFDM / a – mode, antenna port 1

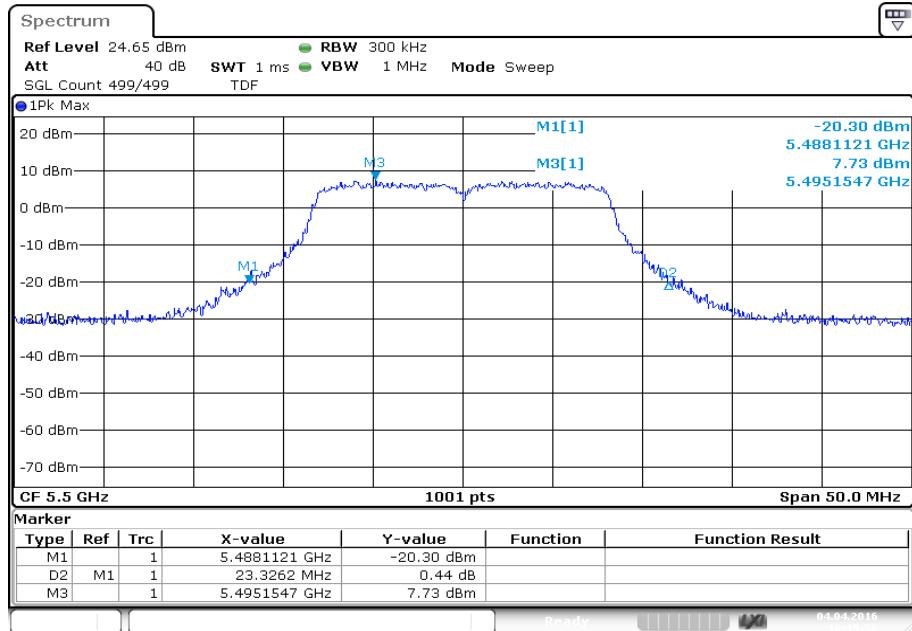
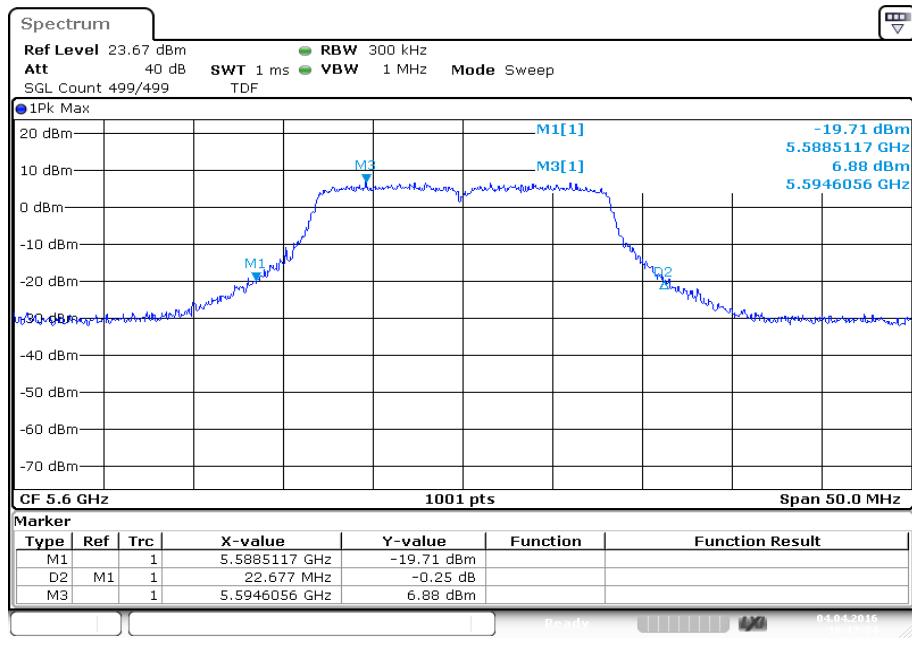
Plot 1: 5180 MHz

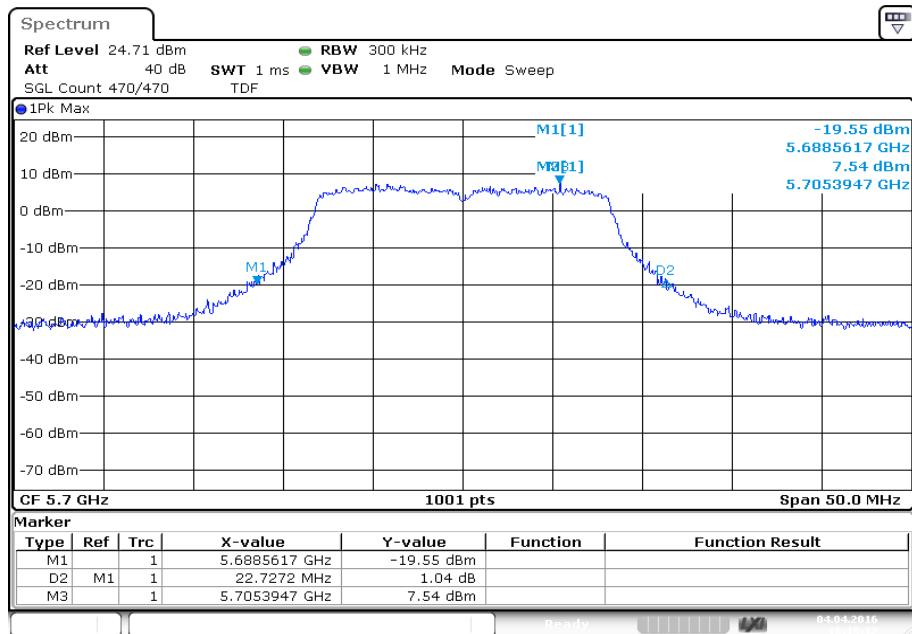
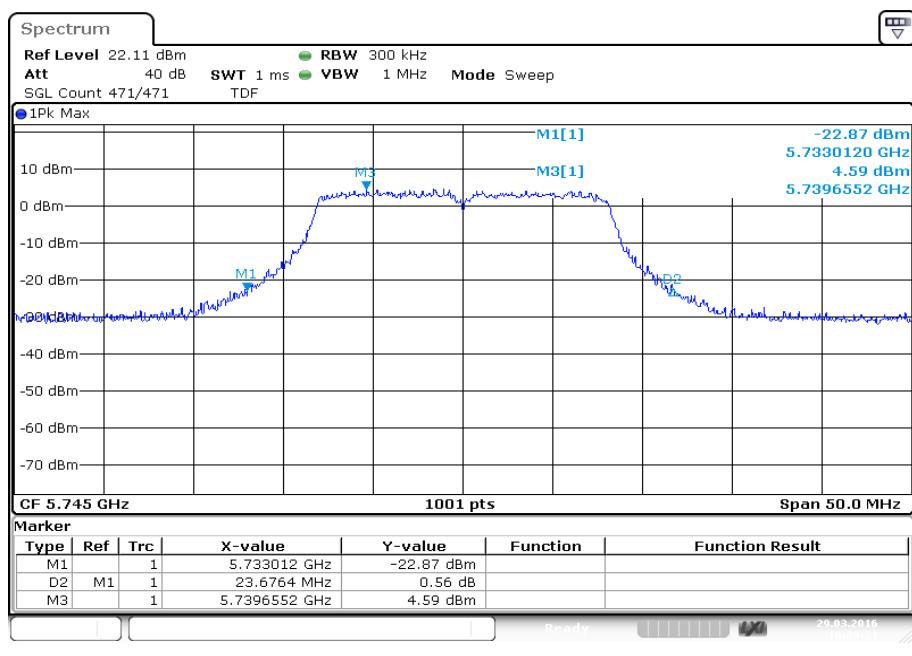


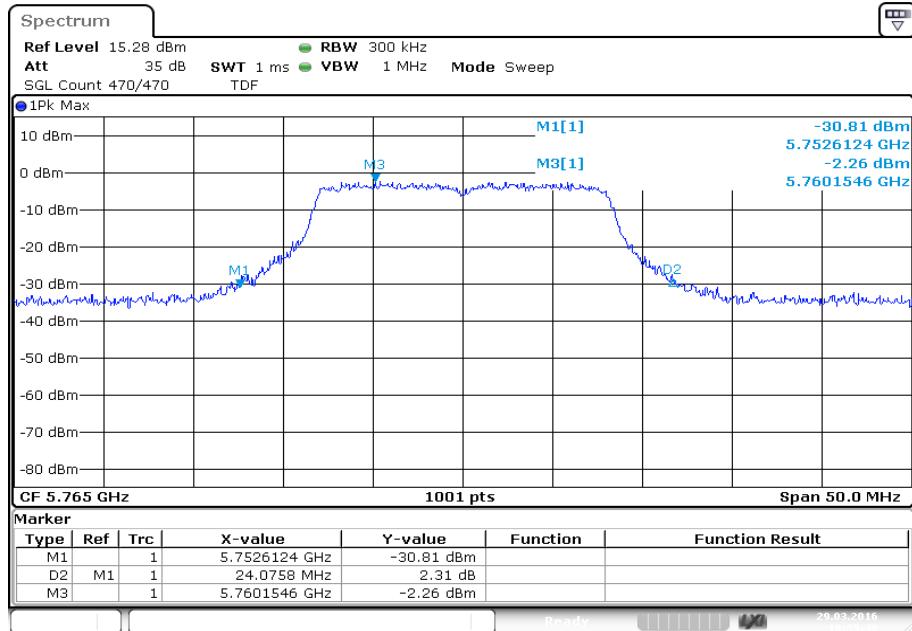
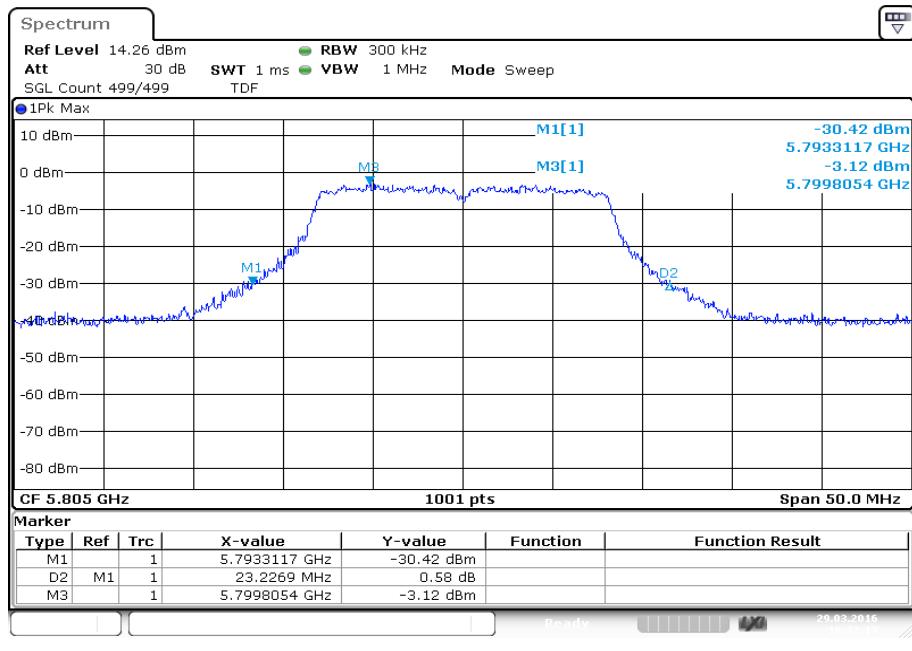
Plot 2: 5200 MHz

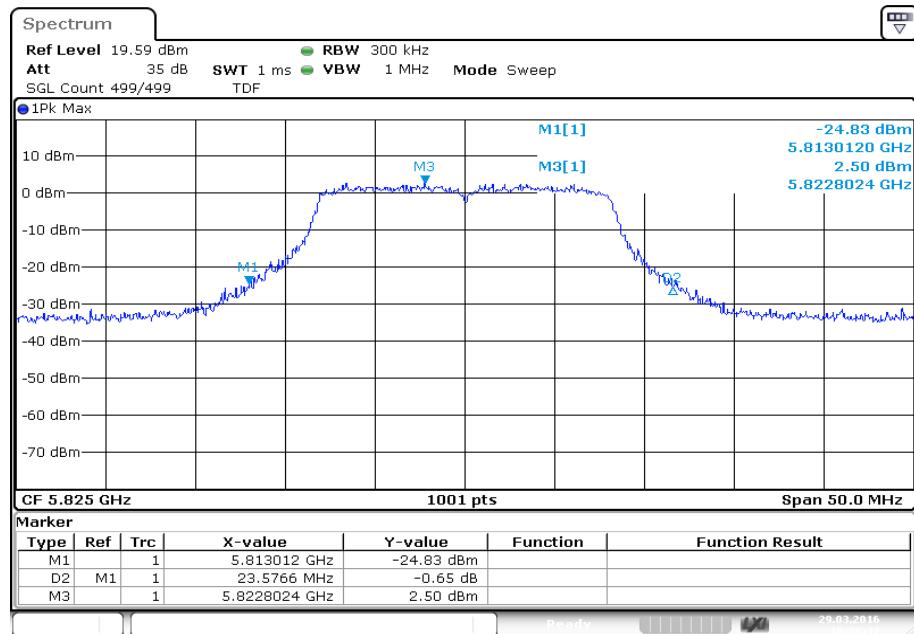


Plot 3: 5300 MHz**Plot 4: 5320 MHz**

Plot 5: 5500 MHz**Plot 6: 5600 MHz**

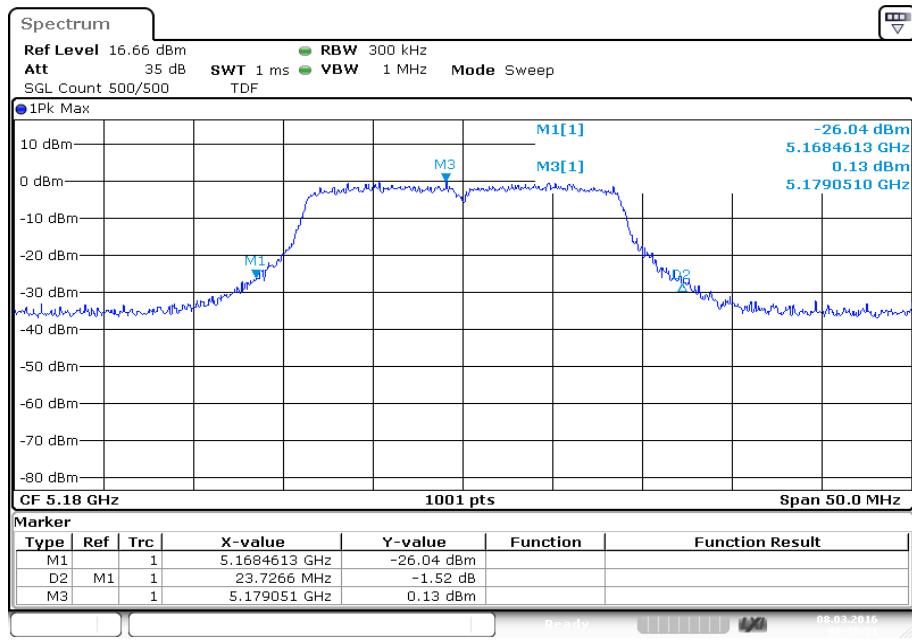
Plot 7: 5700 MHz**Plot 8:** 5745 MHz

Plot 9: 5765 MHz**Plot 10: 5805 MHz**

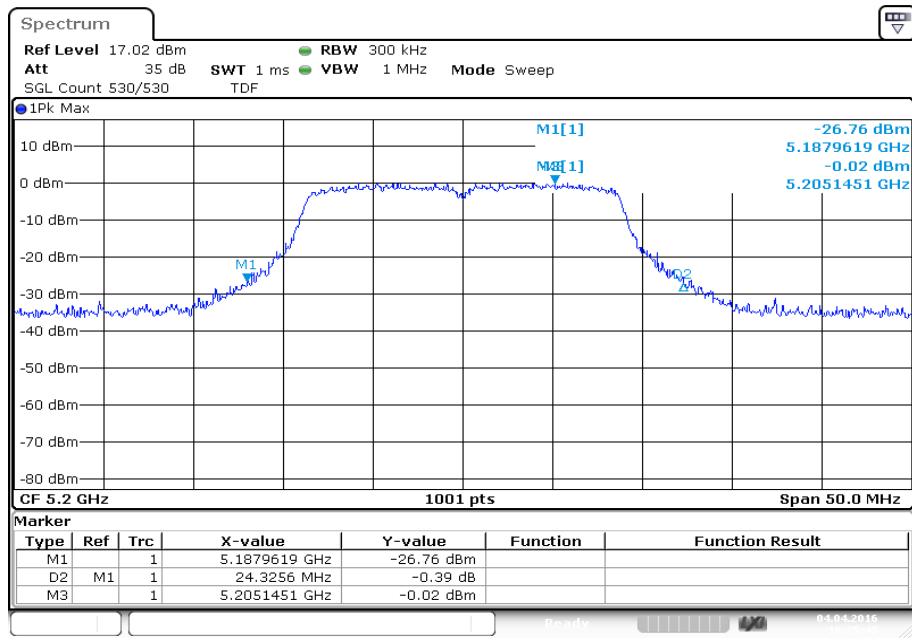
Plot 11: 5825 MHz

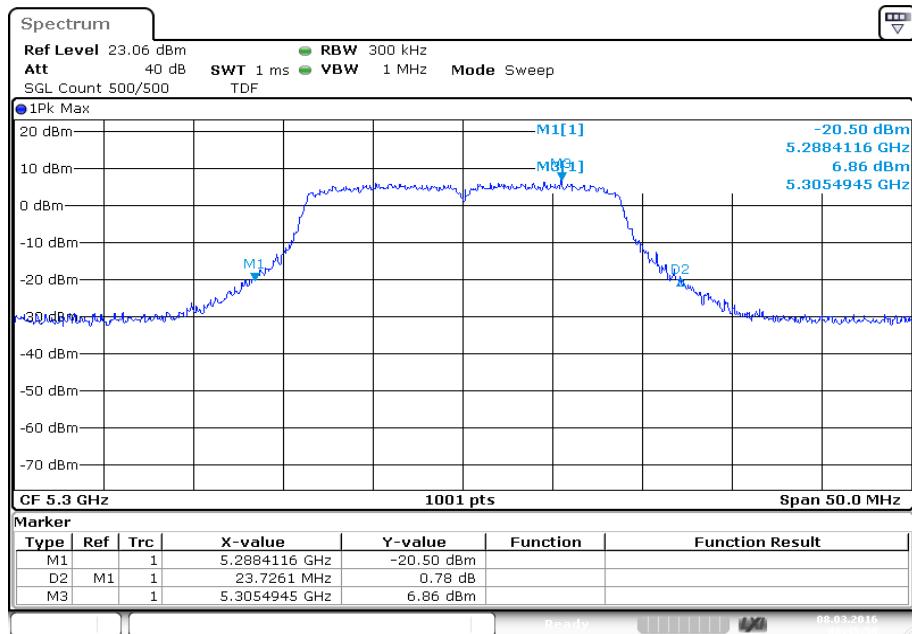
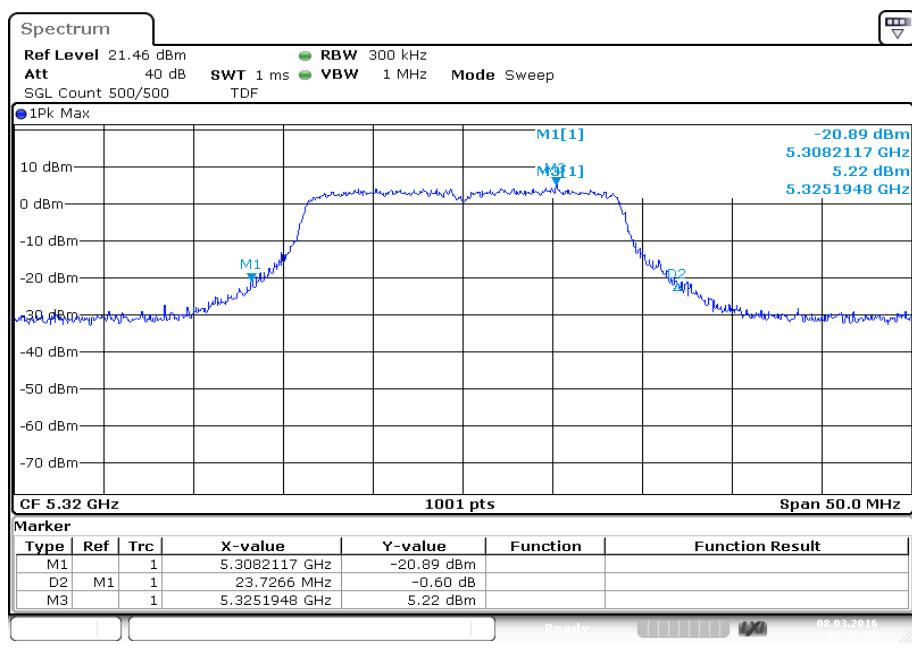
Plots: OFDM / n HT20 – mode, antenna port 1

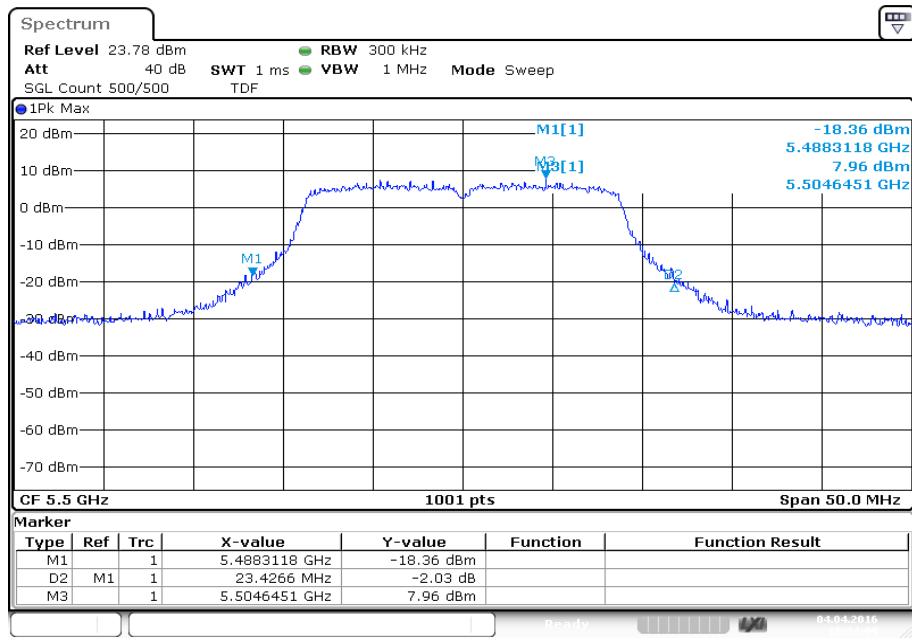
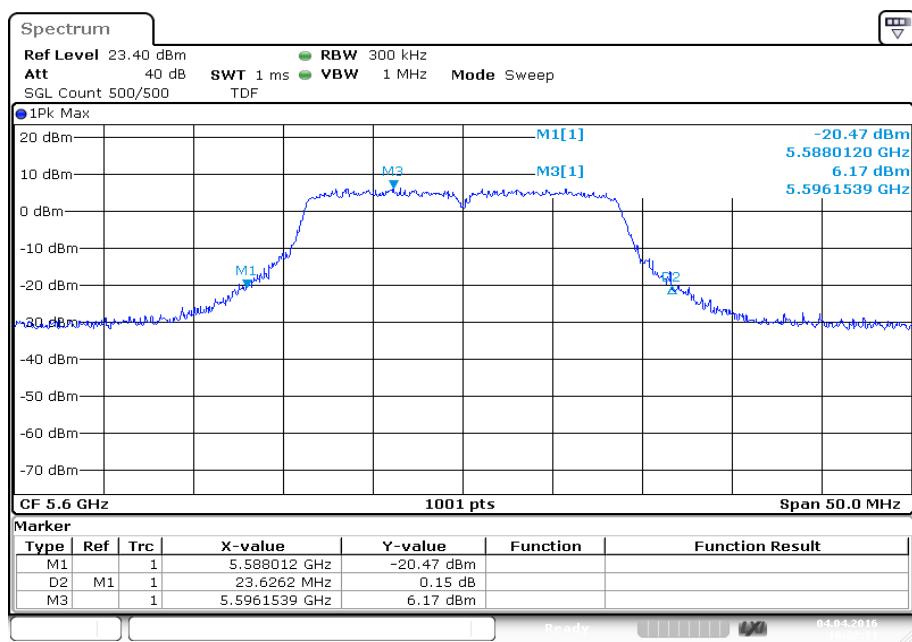
Plot 1: 5180 MHz

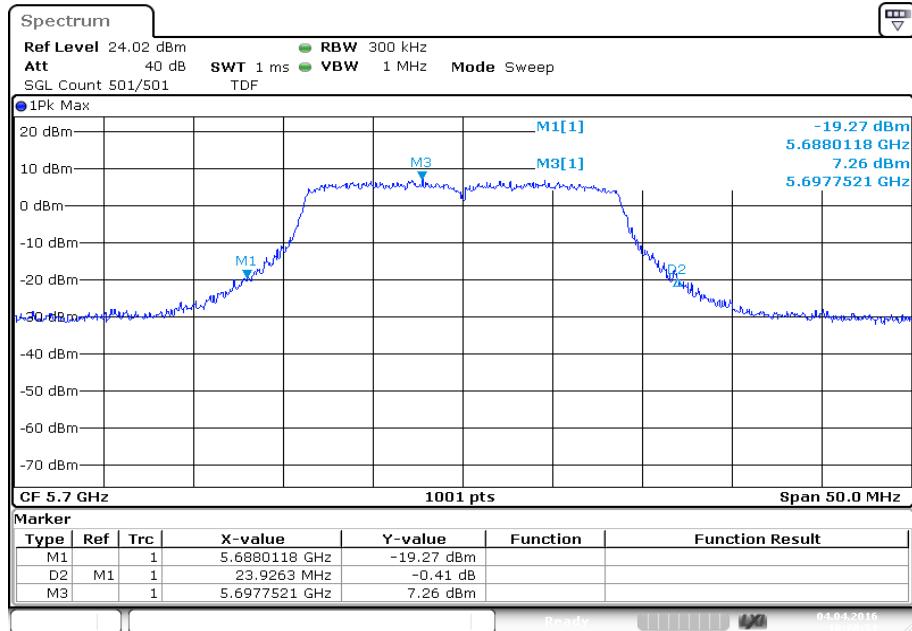
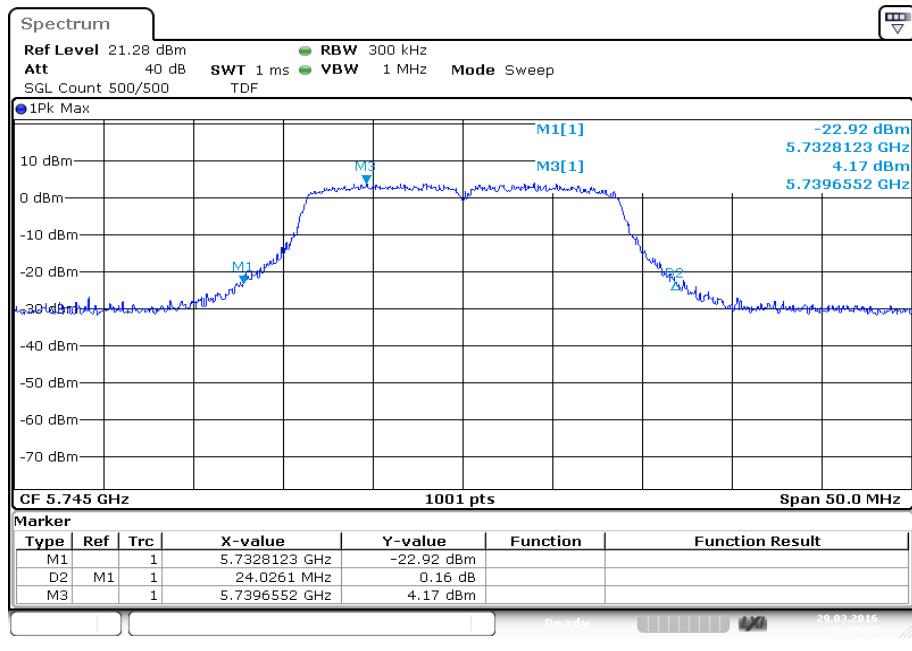


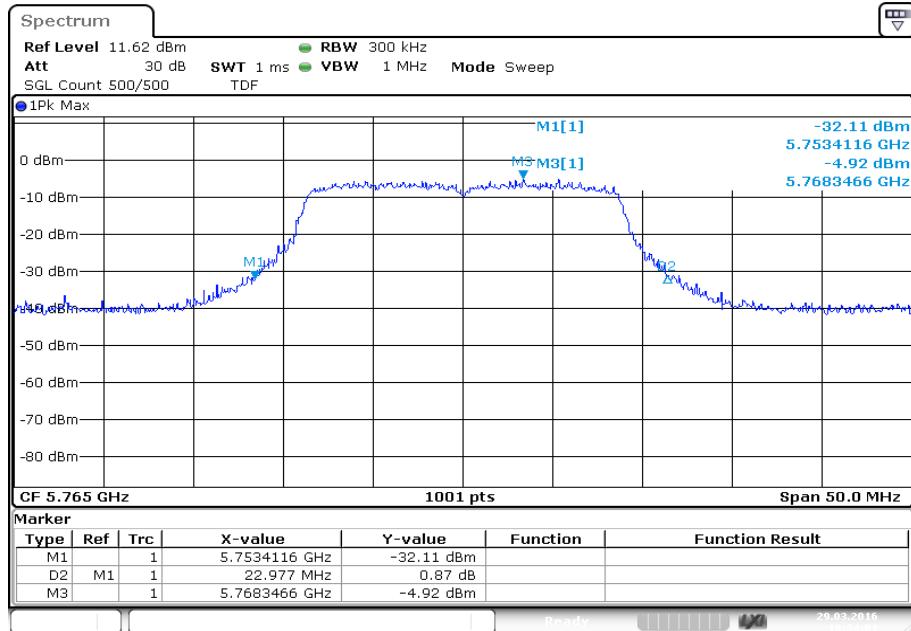
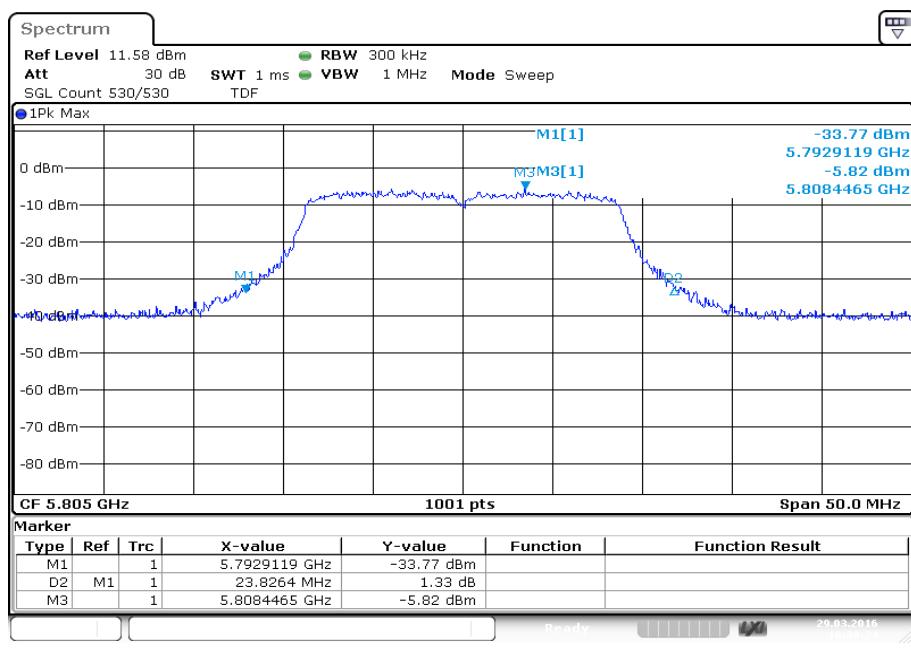
Plot 2: 5200 MHz

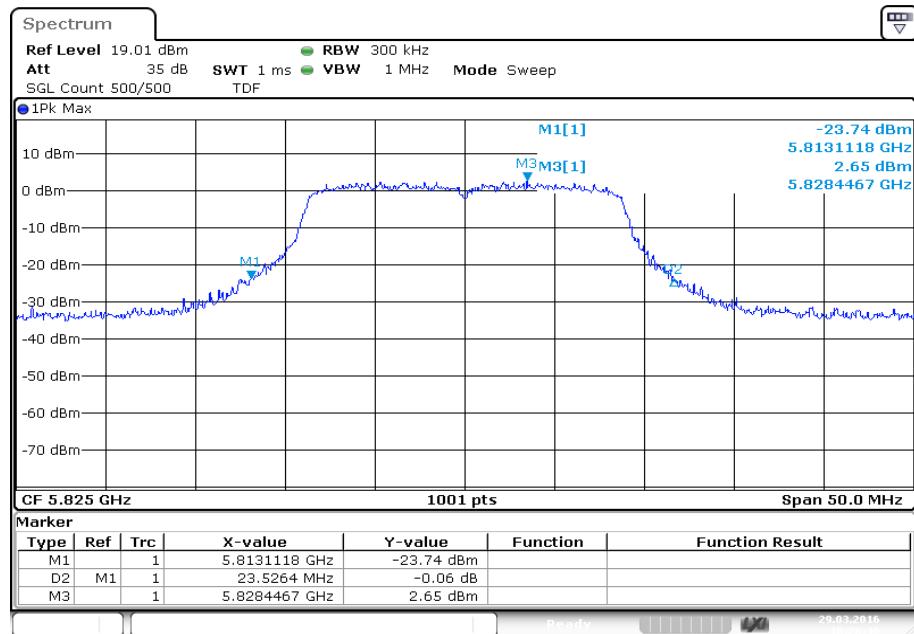


Plot 3: 5300 MHz**Plot 4: 5320 MHz**

Plot 5: 5500 MHz**Plot 6: 5600 MHz**

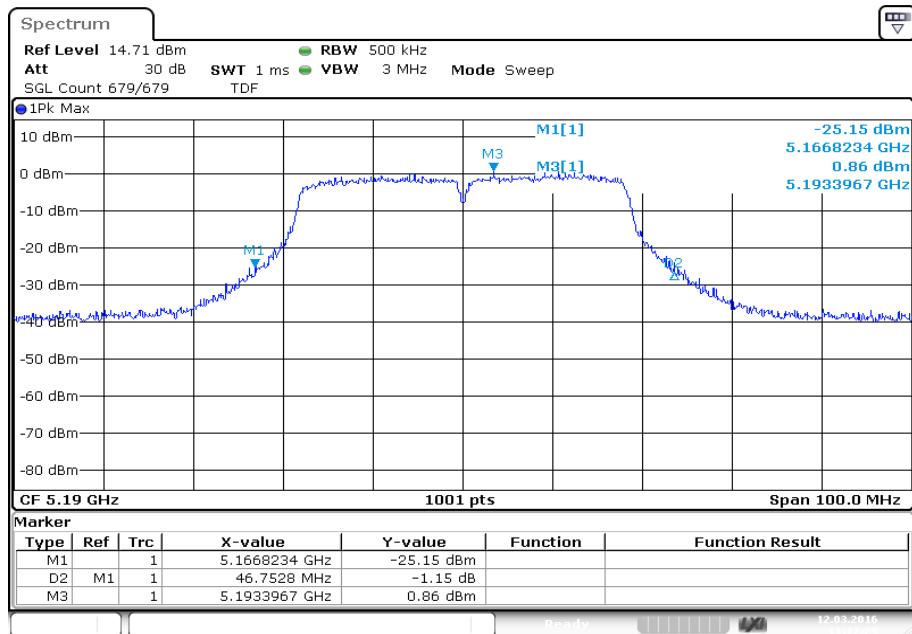
Plot 7: 5700 MHz**Plot 8:** 5745 MHz

Plot 9: 5765 MHz**Plot 10: 5805 MHz**

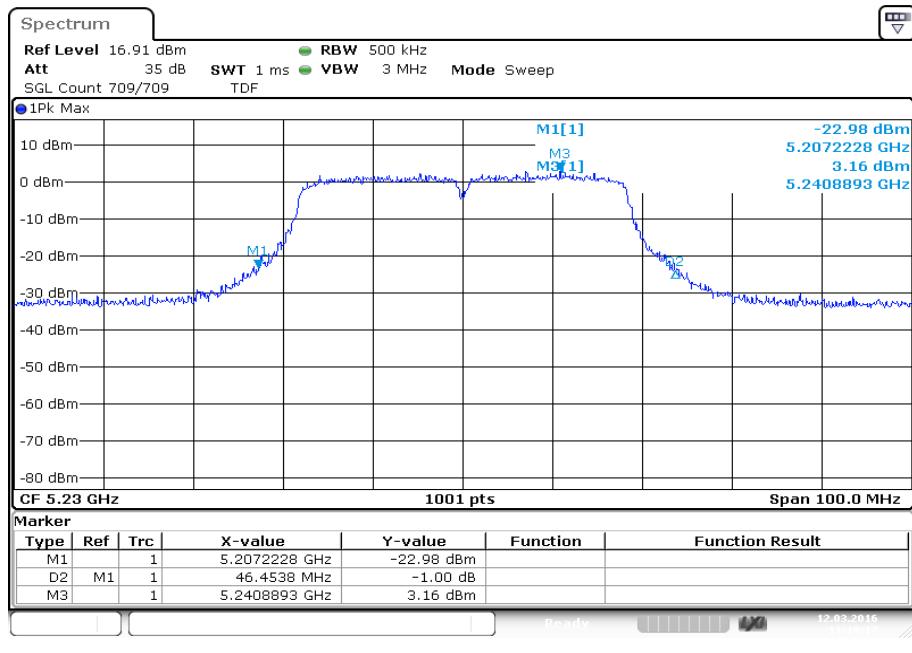
Plot 11: 5825 MHz

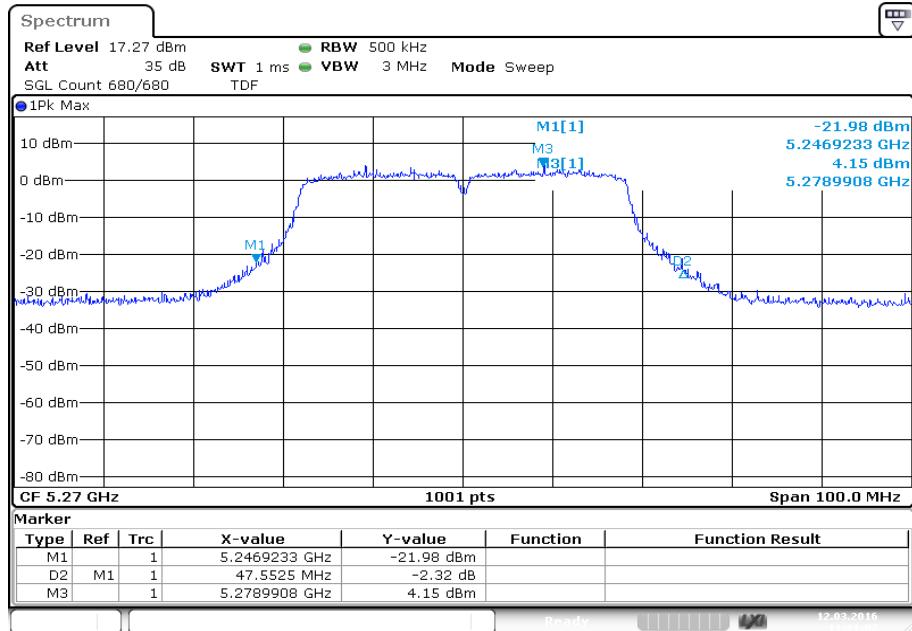
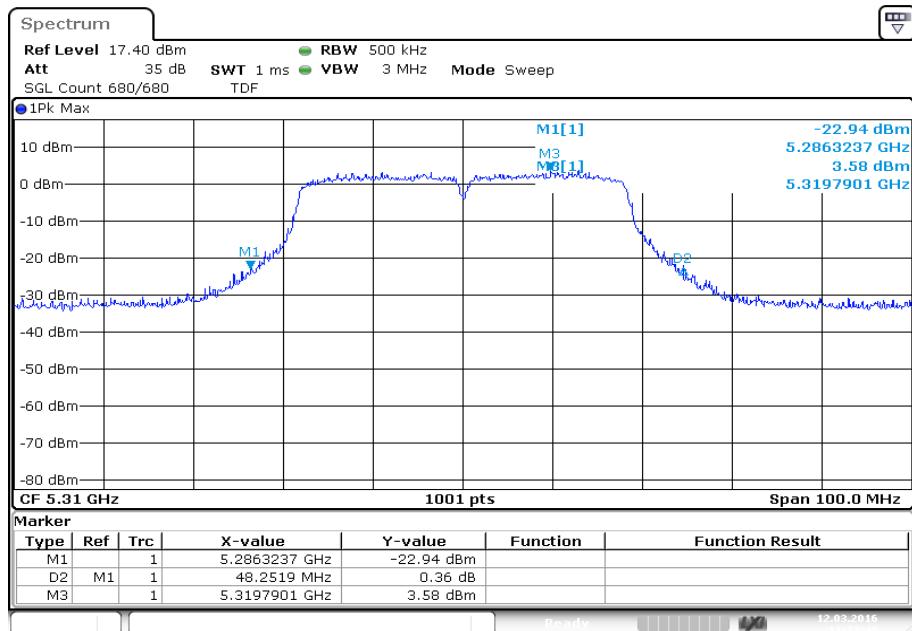
Plots: OFDM / n HT40 – mode, antenna port 1

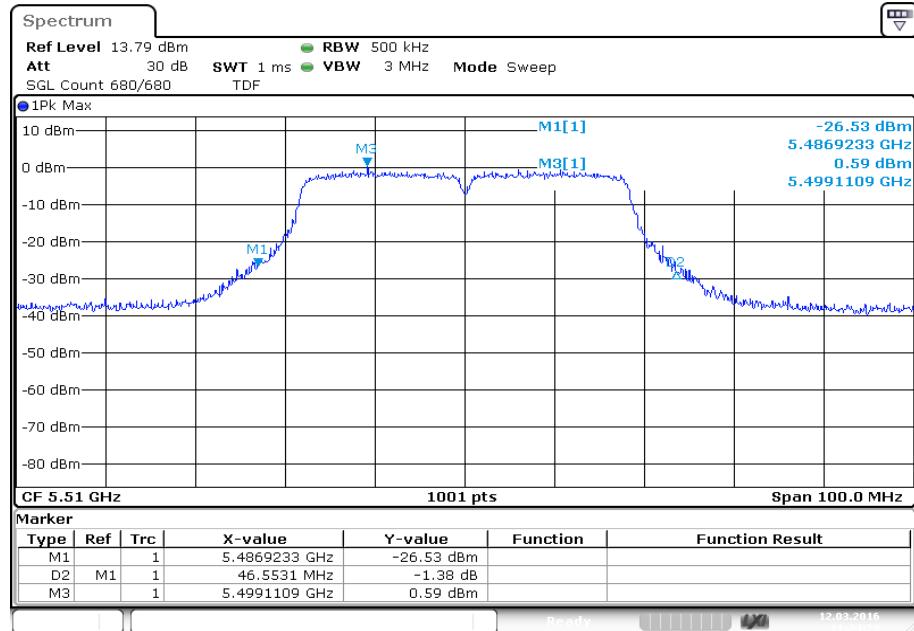
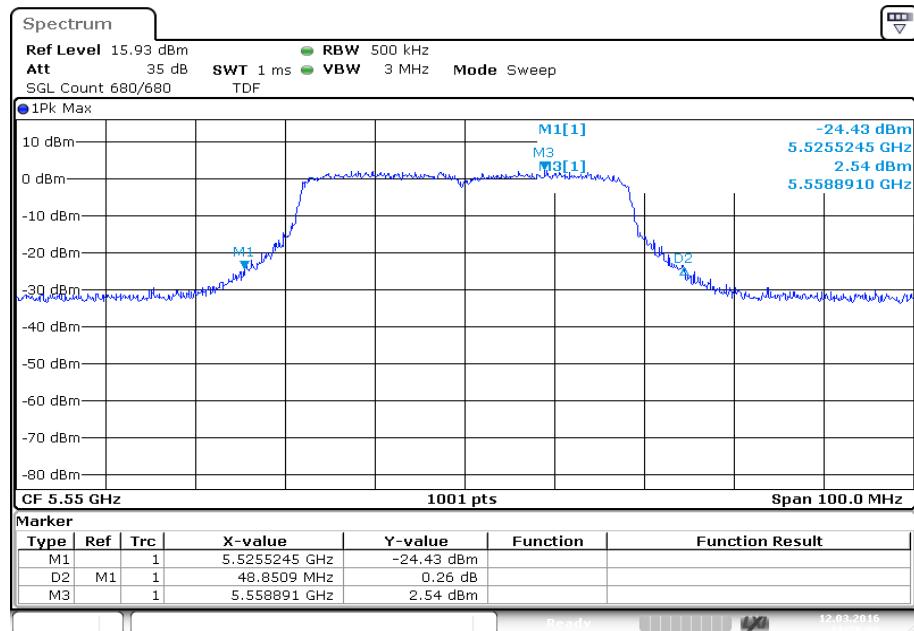
Plot 1: 5190 MHz

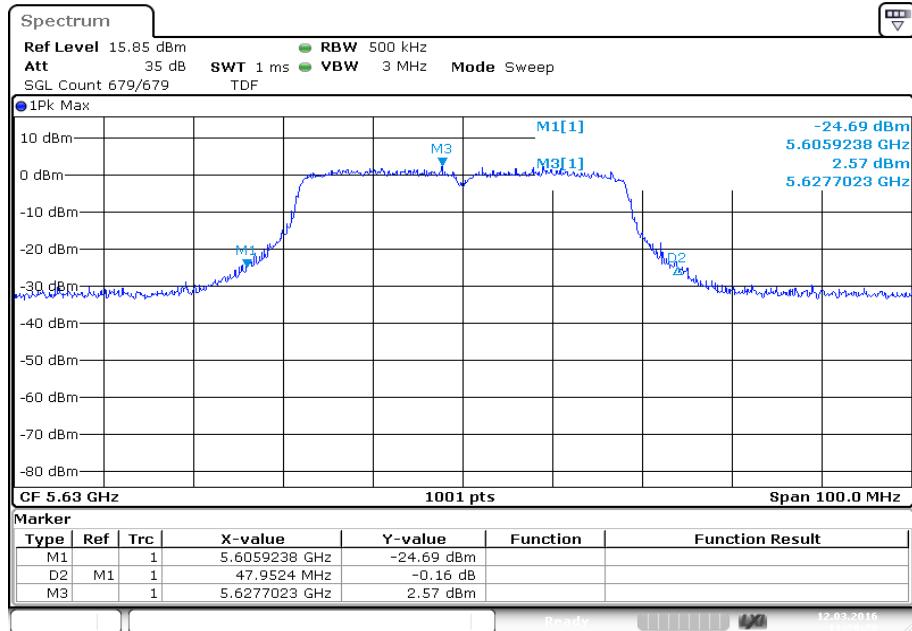
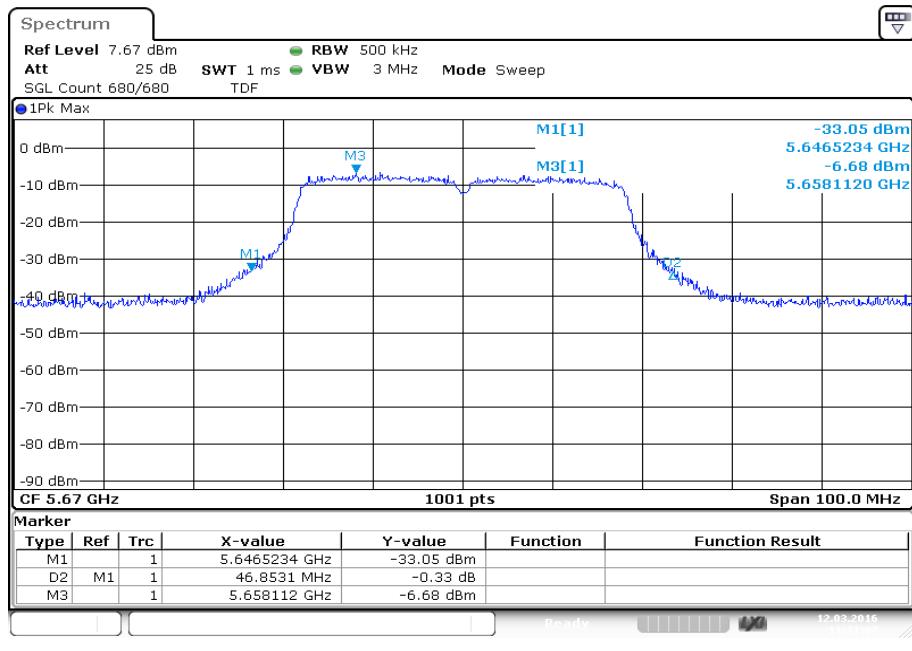


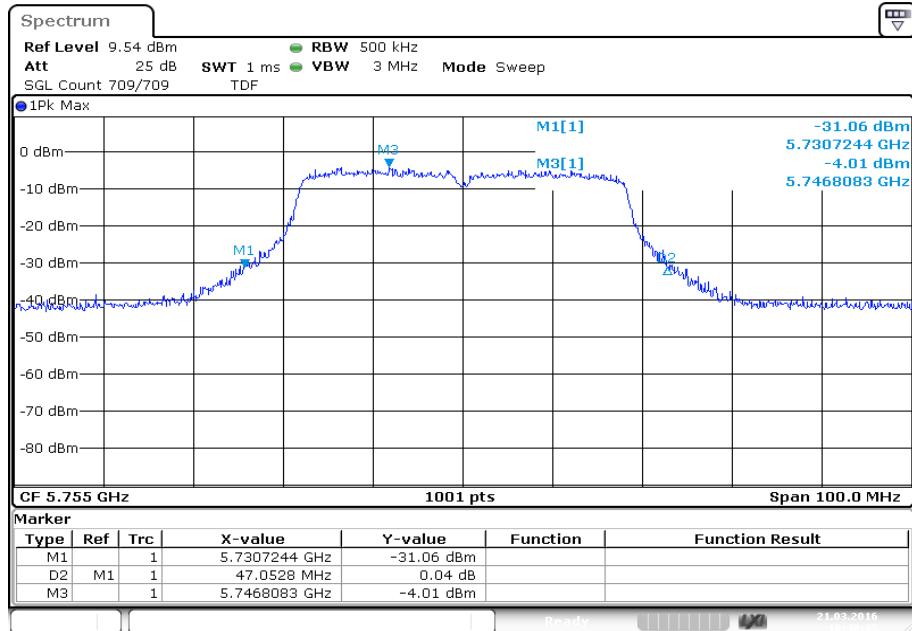
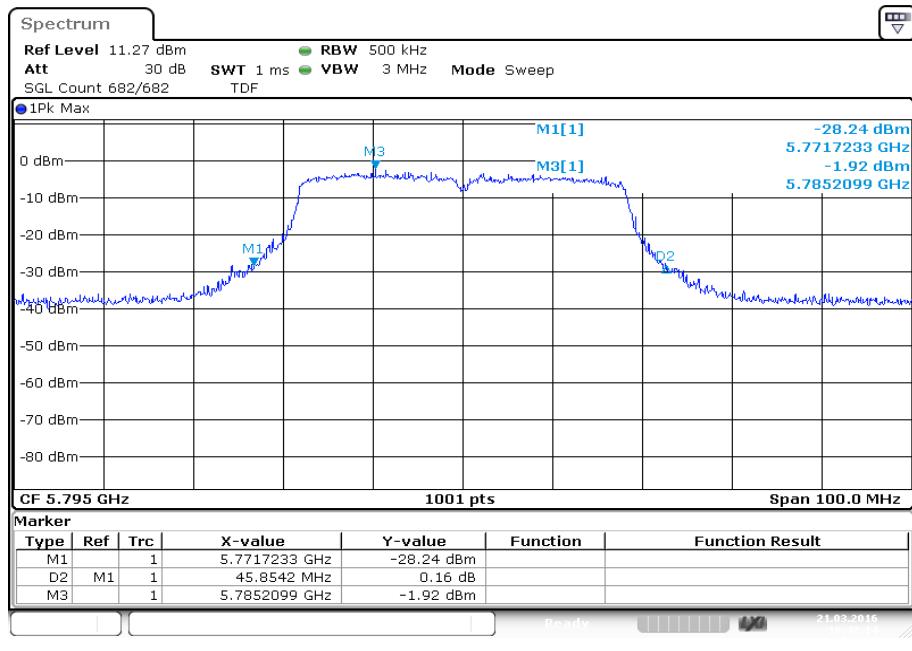
Plot 2: 5230 MHz



Plot 3: 5270 MHz**Plot 4: 5310 MHz**

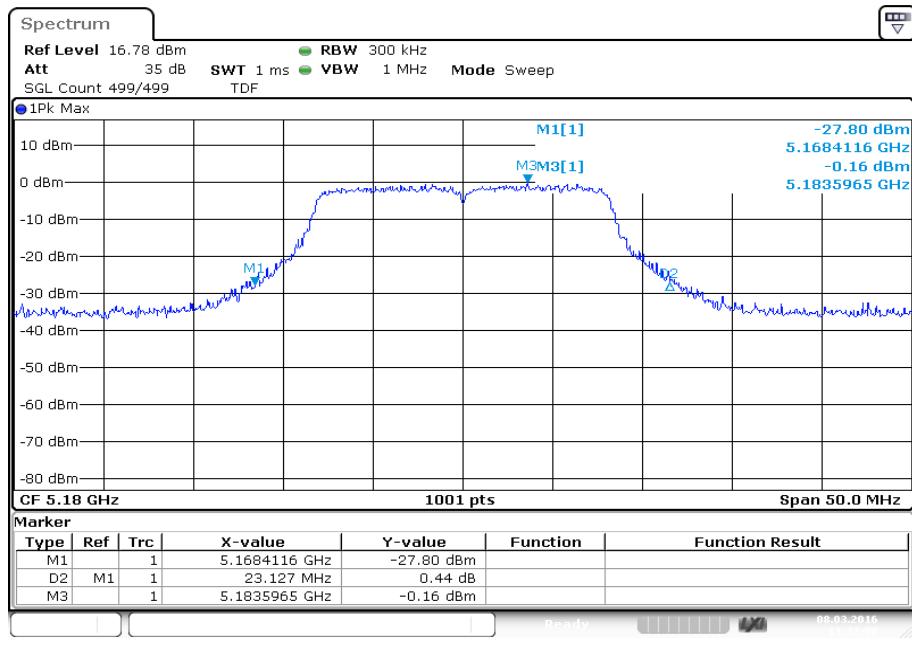
Plot 5: 5510 MHz**Plot 6: 5550 MHz**

Plot 7: 5630 MHz**Plot 8:** 5670 MHz

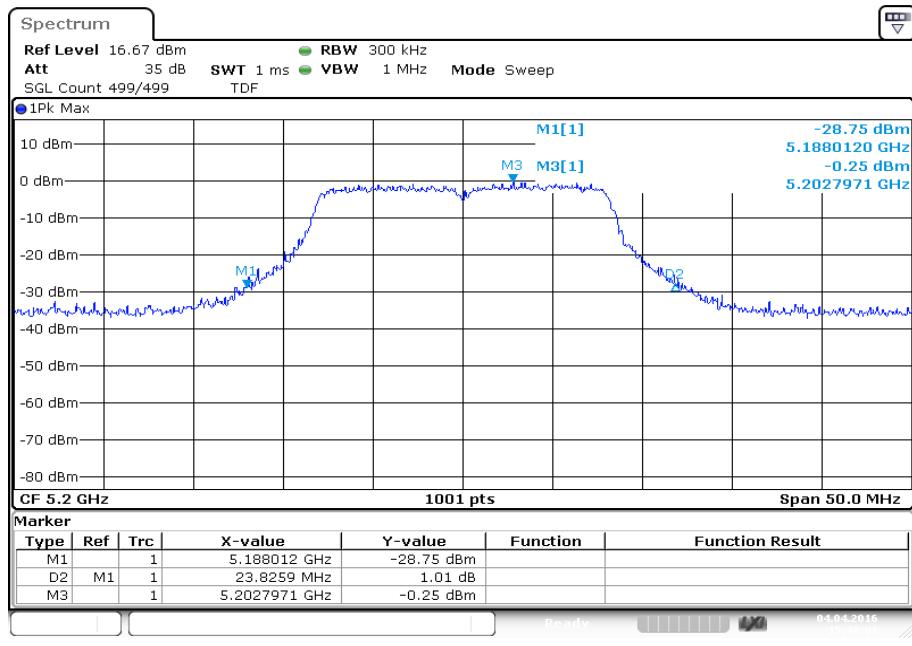
Plot 9: 5755 MHz**Plot 10: 5795 MHz**

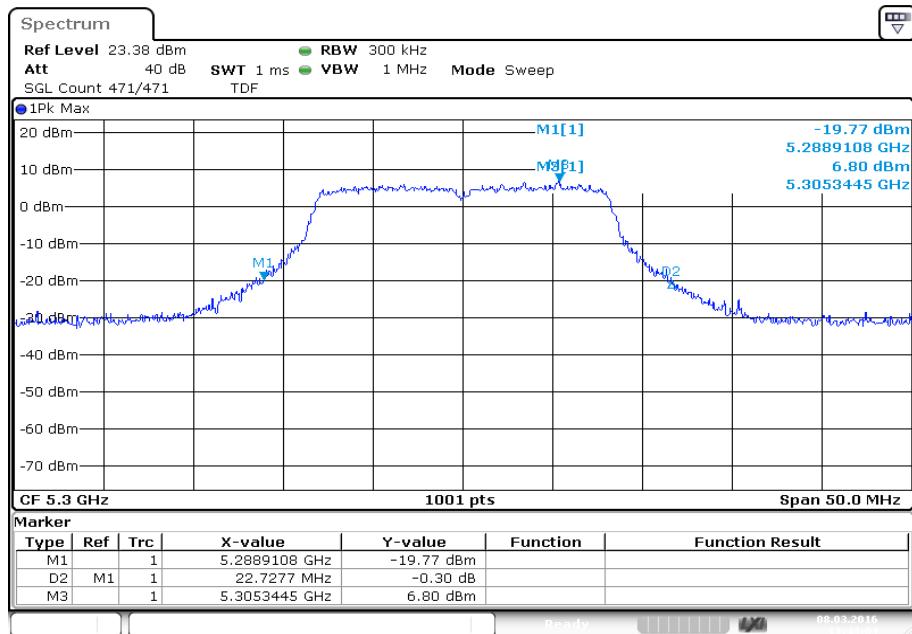
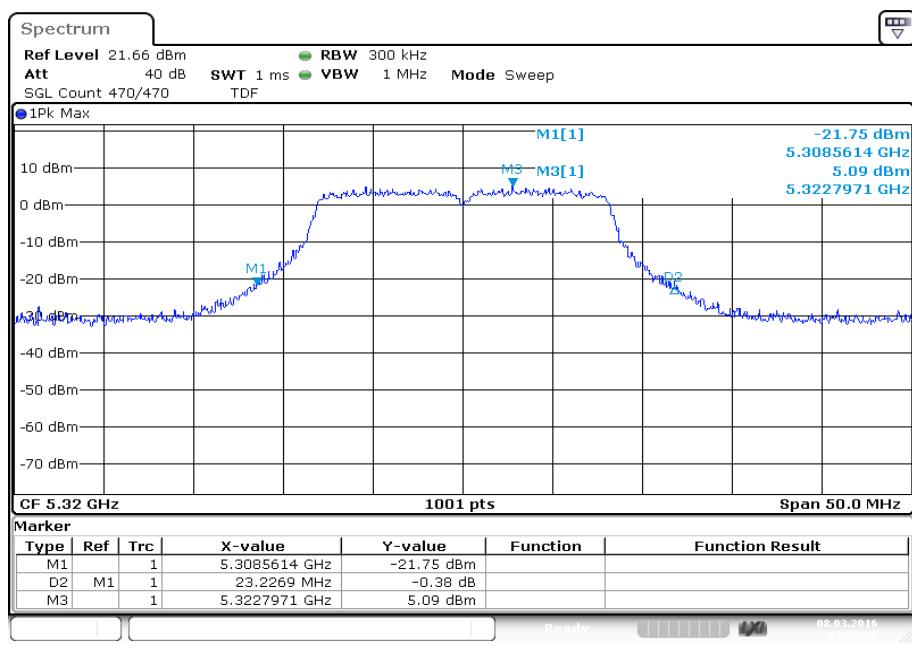
Plots: OFDM / a – mode, antenna port 2

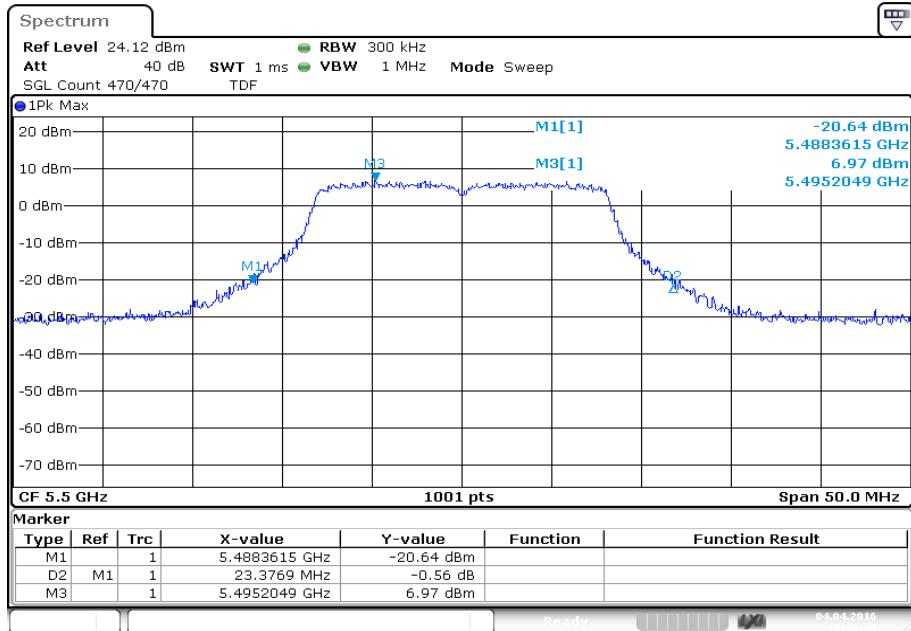
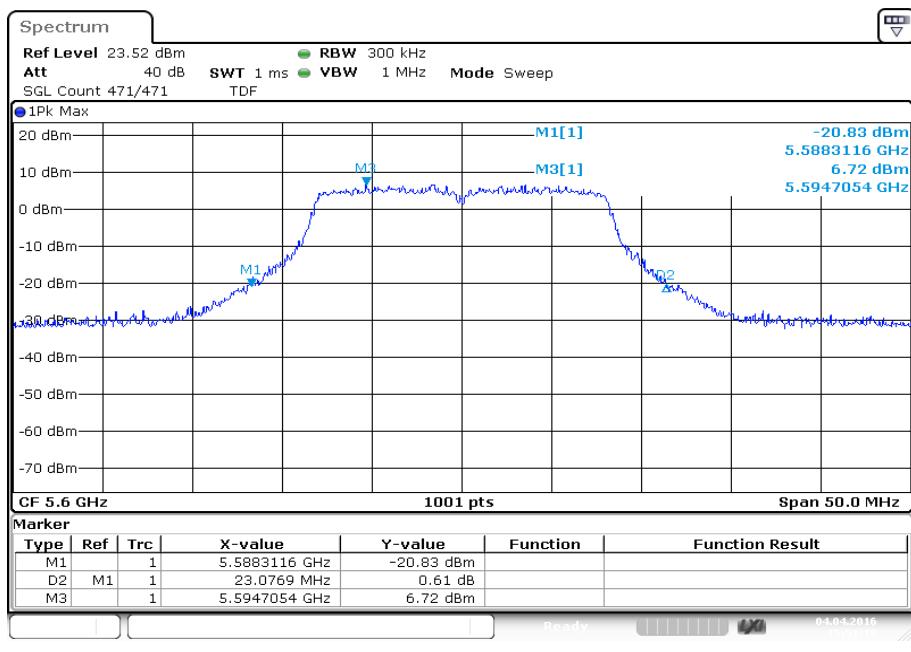
Plot 1: 5180 MHz

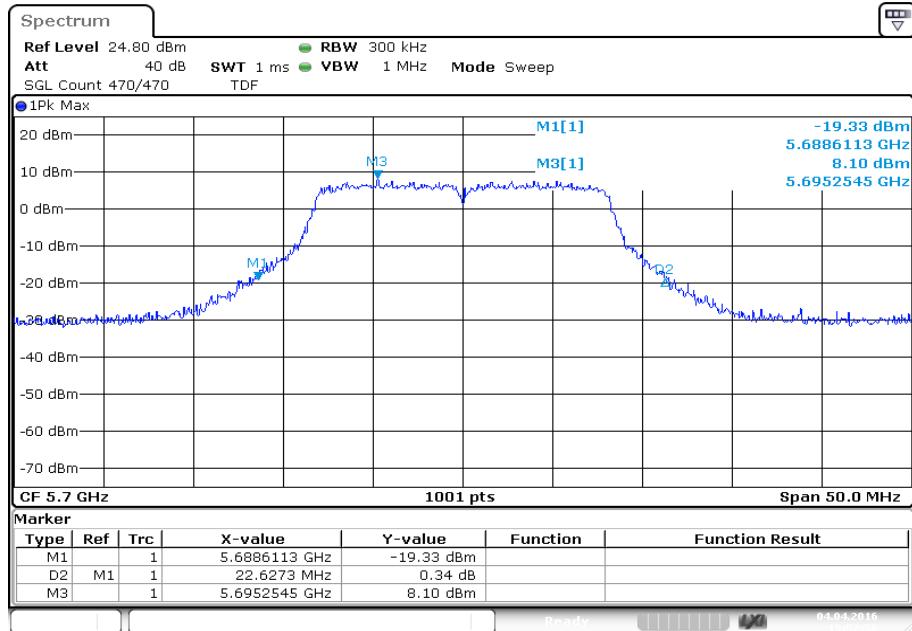
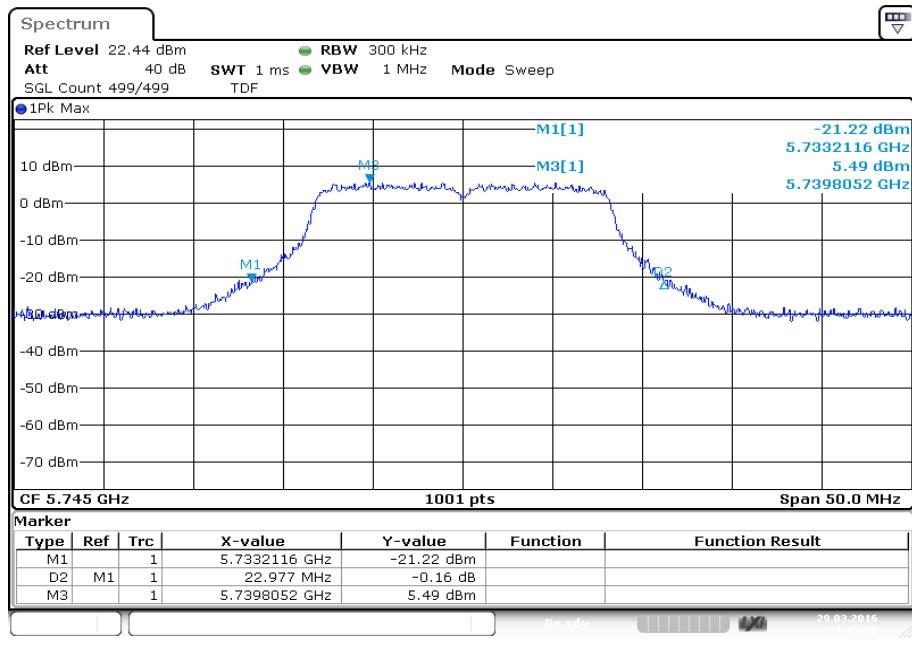


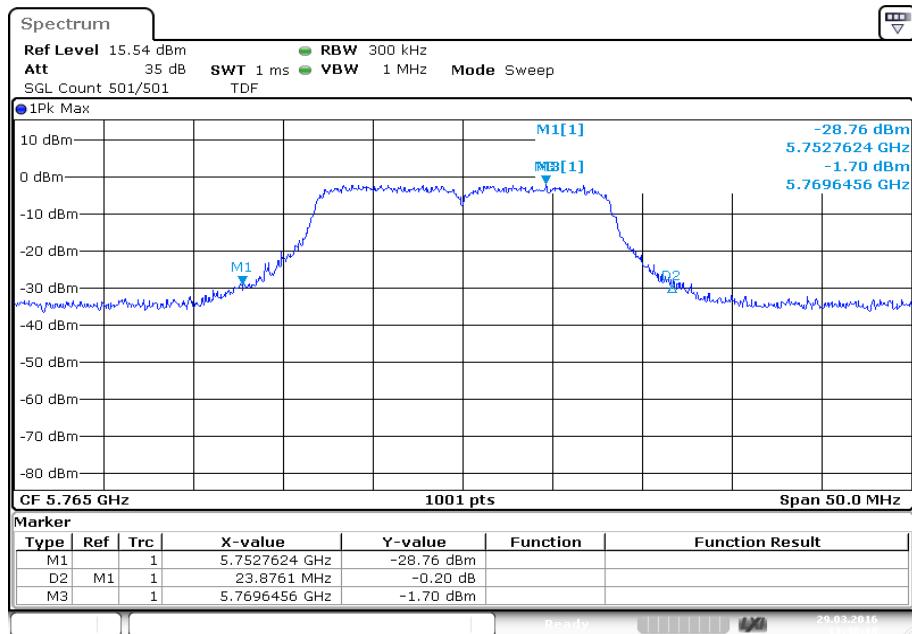
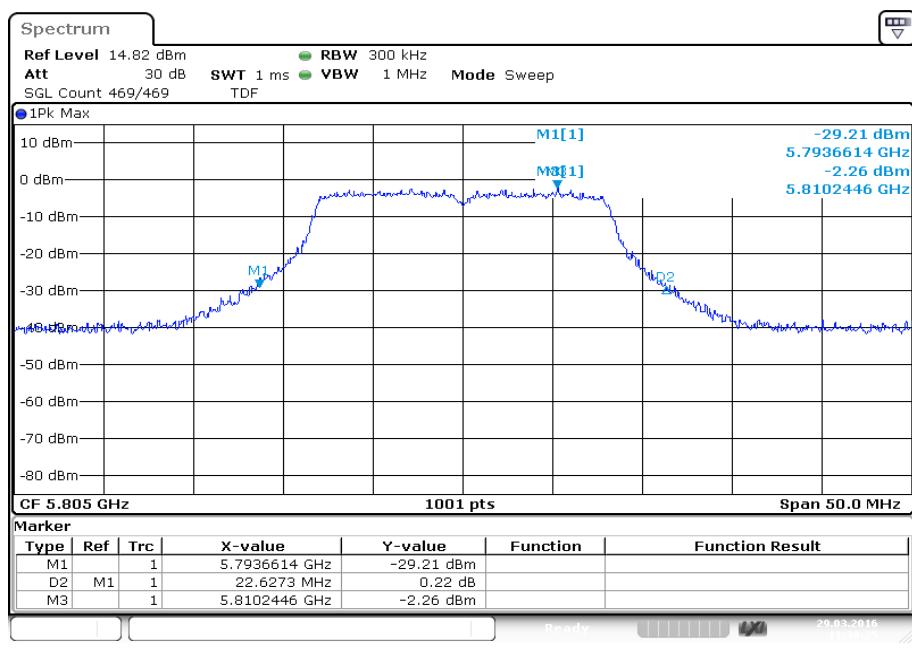
Plot 2: 5200 MHz

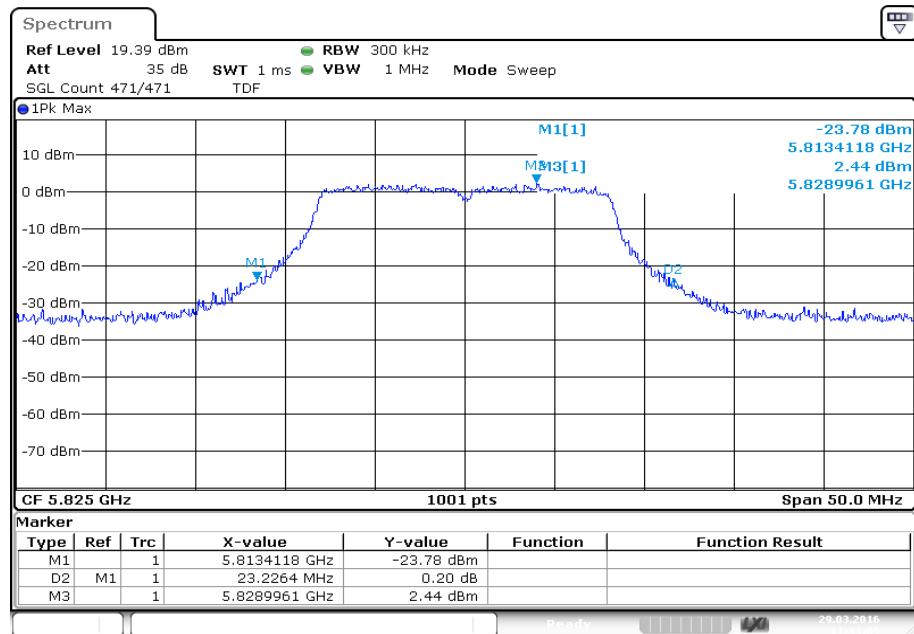


Plot 3: 5300 MHz**Plot 4: 5320 MHz**

Plot 5: 5500 MHz**Plot 6:** 5600 MHz

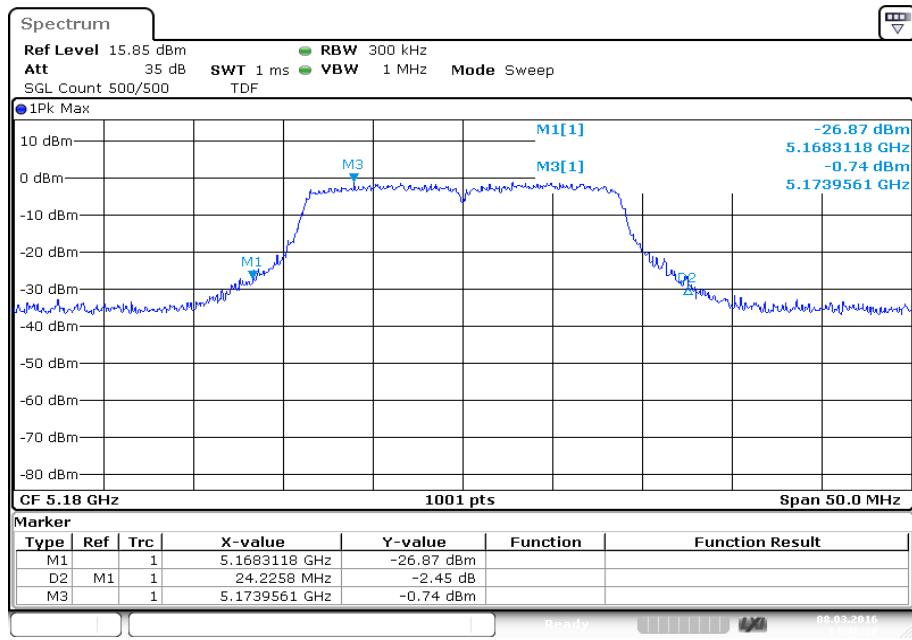
Plot 7: 5700 MHz**Plot 8:** 5745 MHz

Plot 9: 5765 MHz**Plot 10: 5805 MHz**

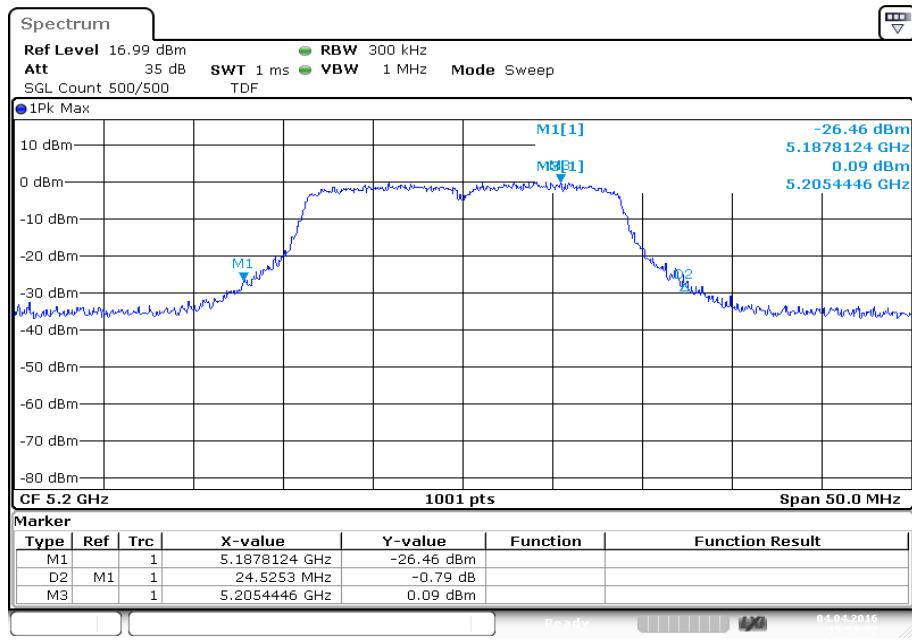
Plot 11: 5825 MHz

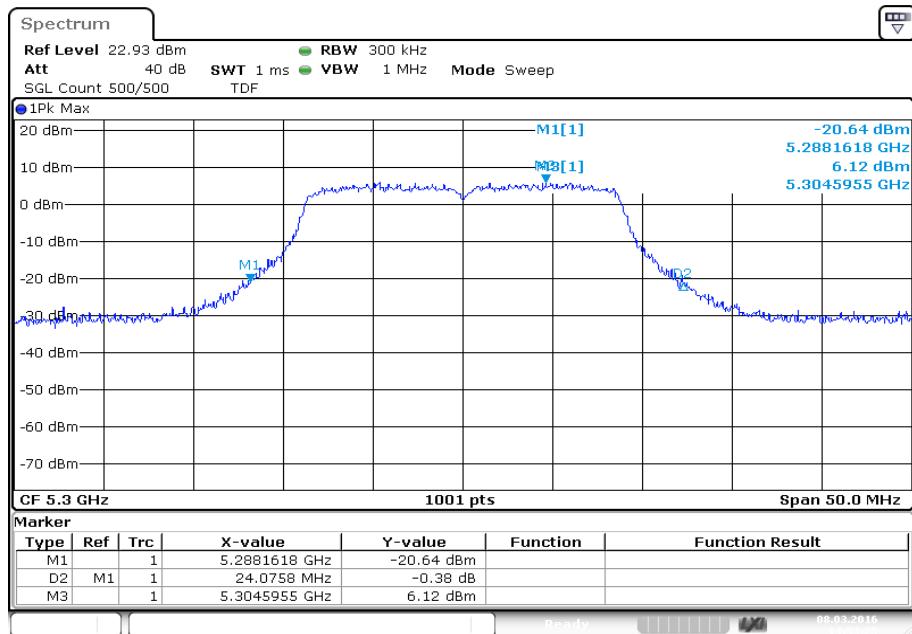
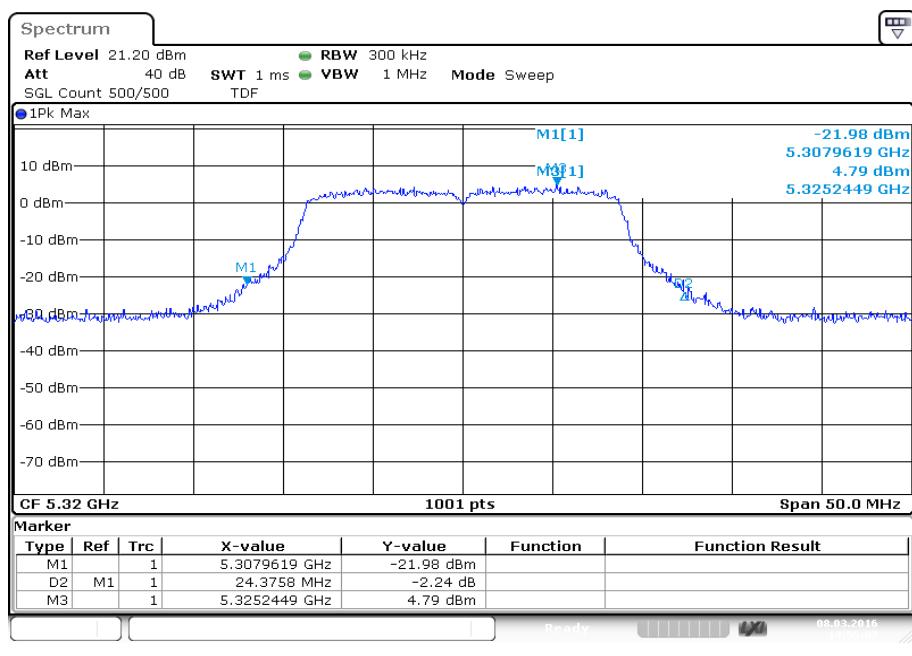
Plots: OFDM / n HT20 – mode, antenna port 2

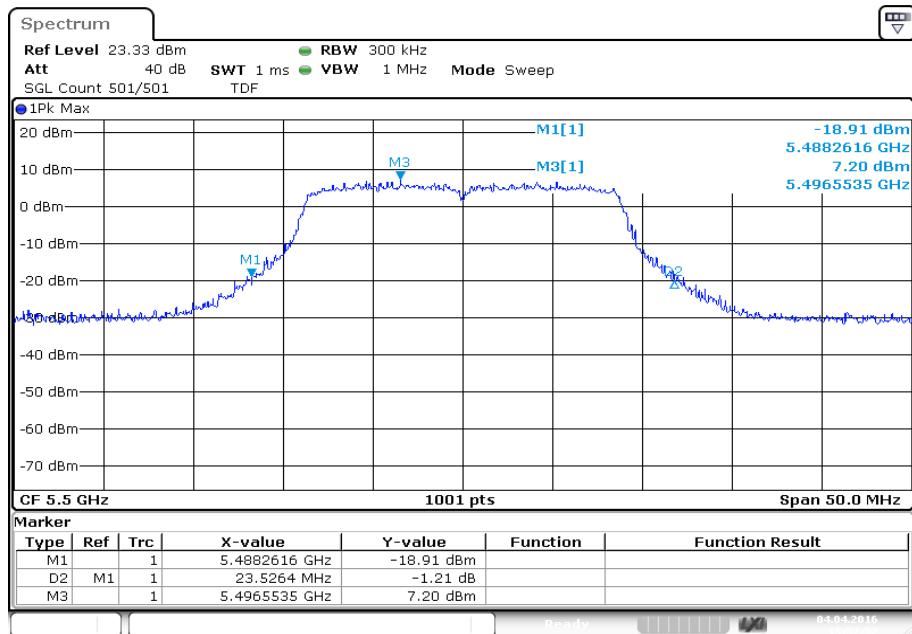
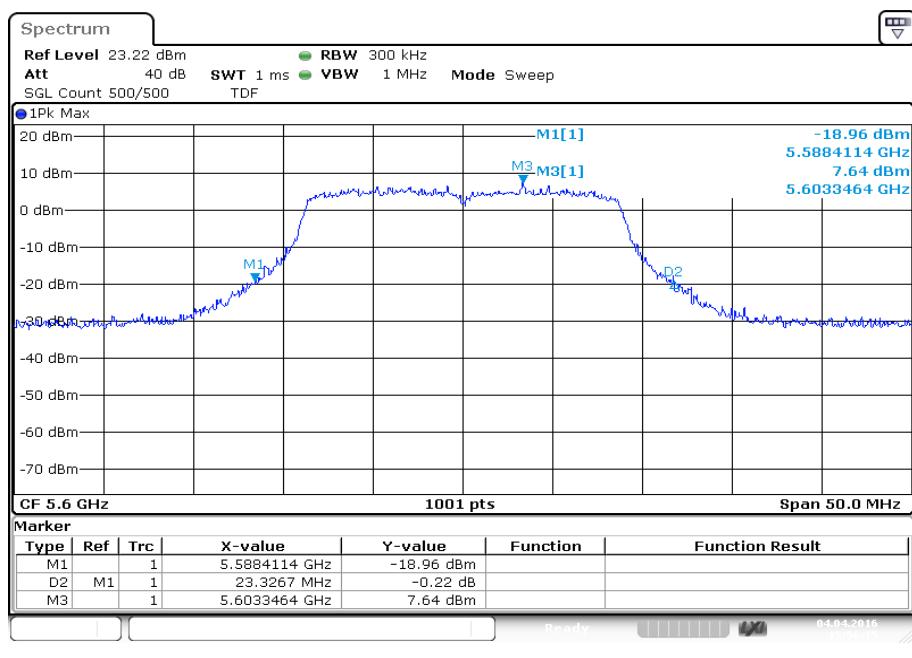
Plot 1: 5180 MHz

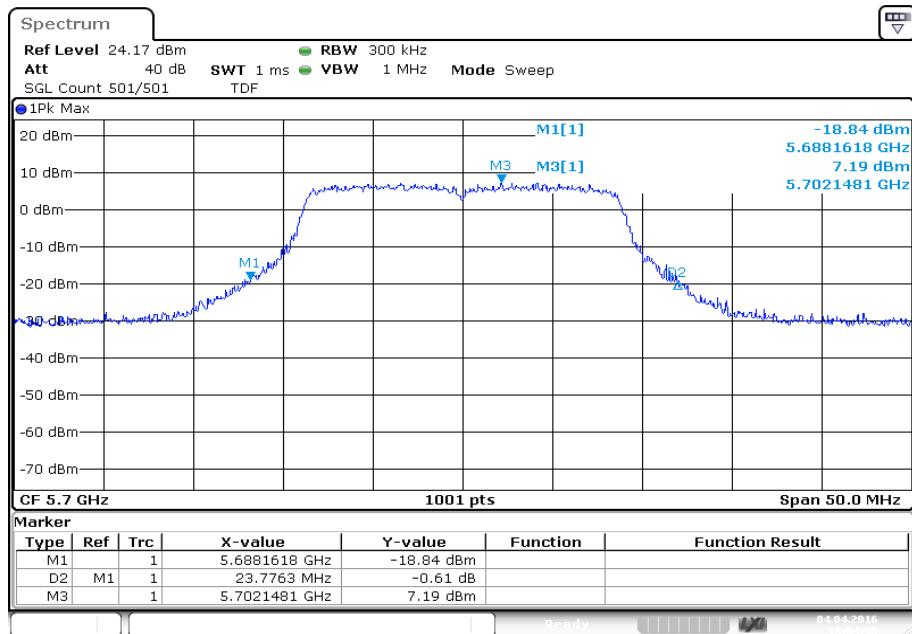
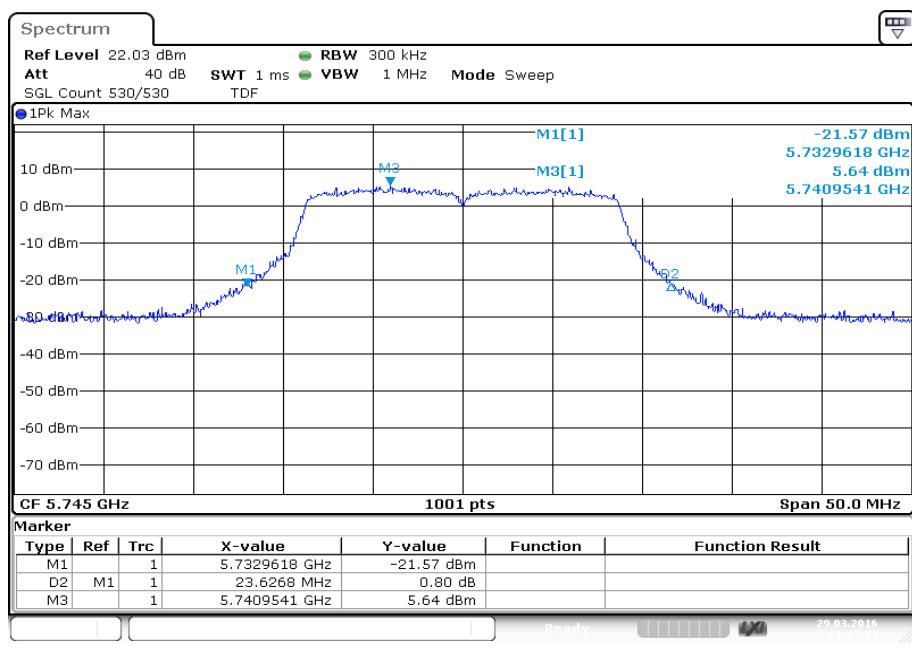


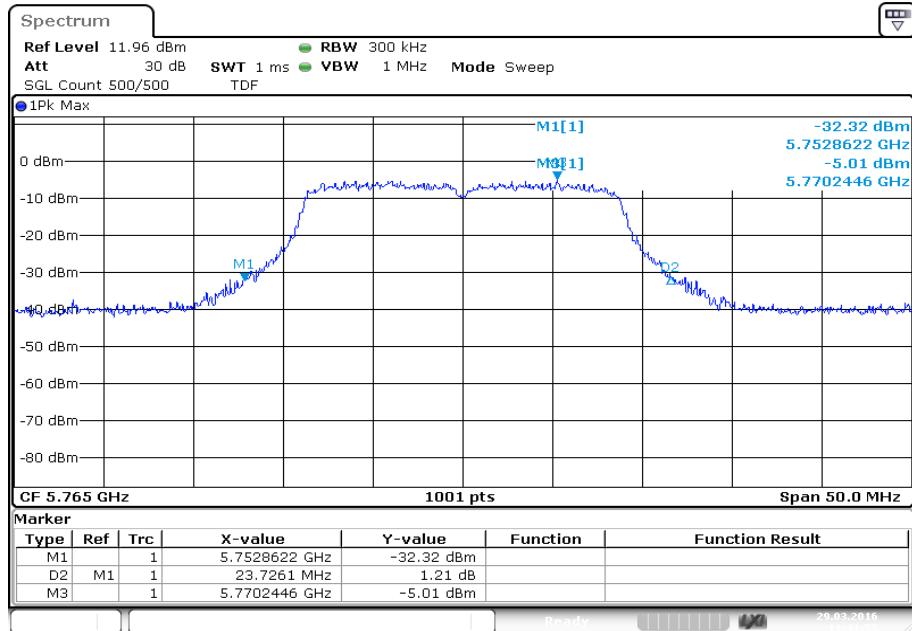
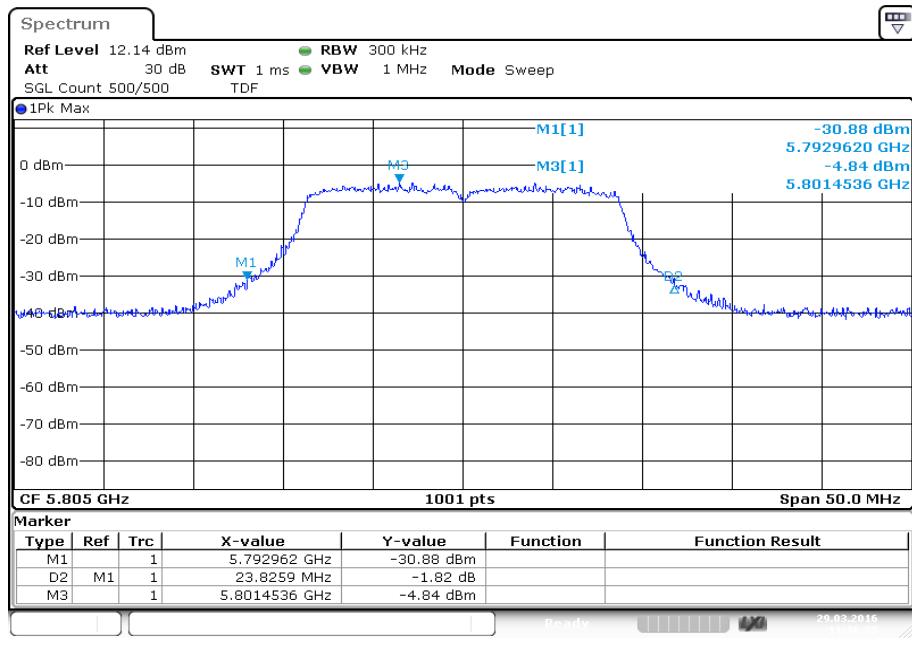
Plot 2: 5200 MHz

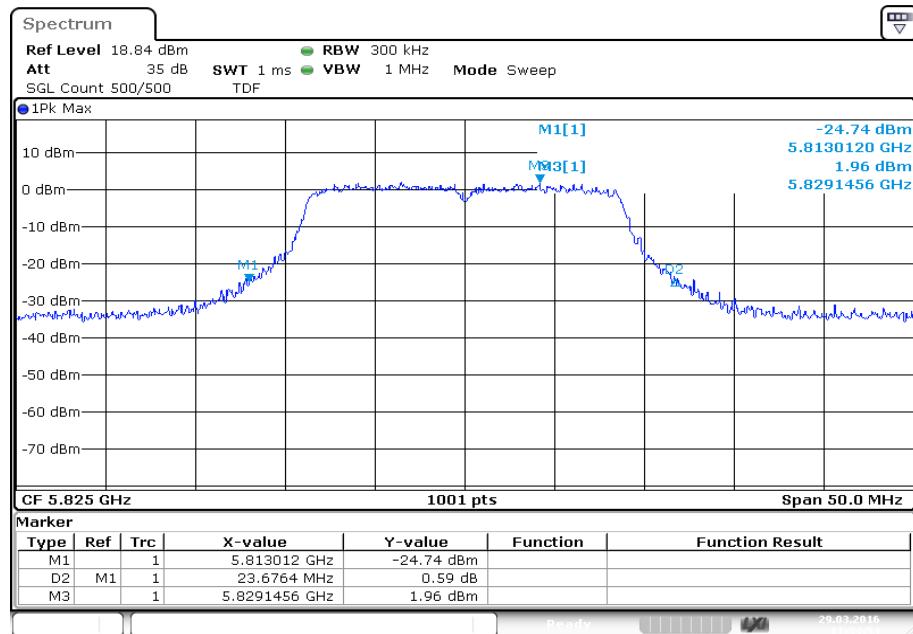


Plot 3: 5300 MHz**Plot 4: 5320 MHz**

Plot 5: 5500 MHz**Plot 6: 5600 MHz**

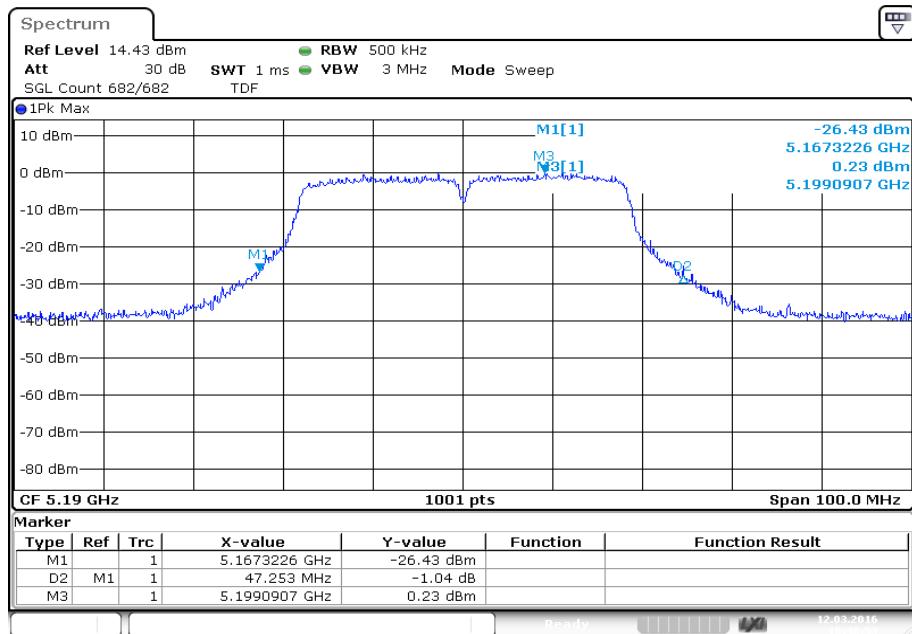
Plot 7: 5700 MHz**Plot 8:** 5745 MHz

Plot 9: 5765 MHz**Plot 10: 5805 MHz**

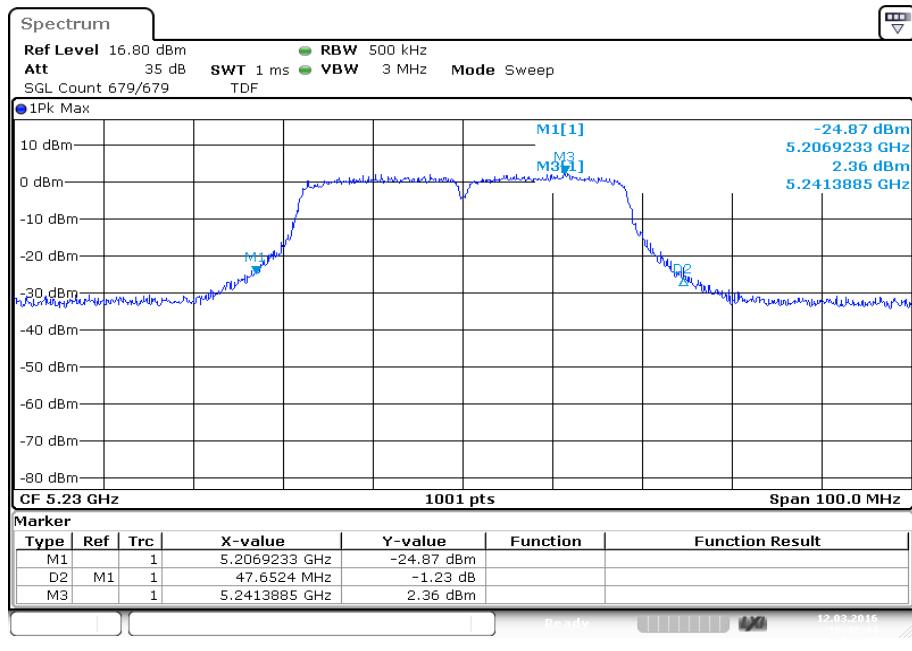
Plot 11: 5825 MHz

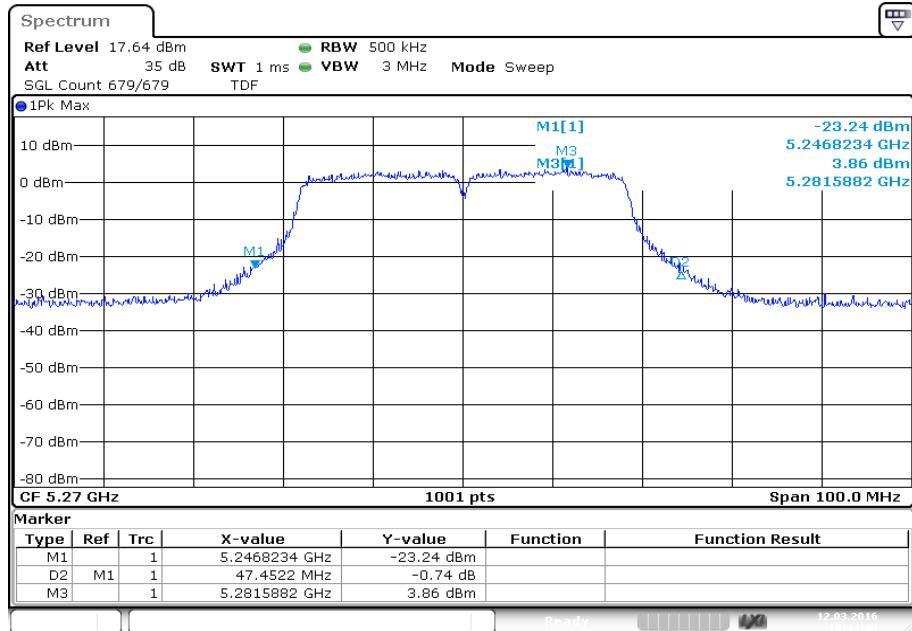
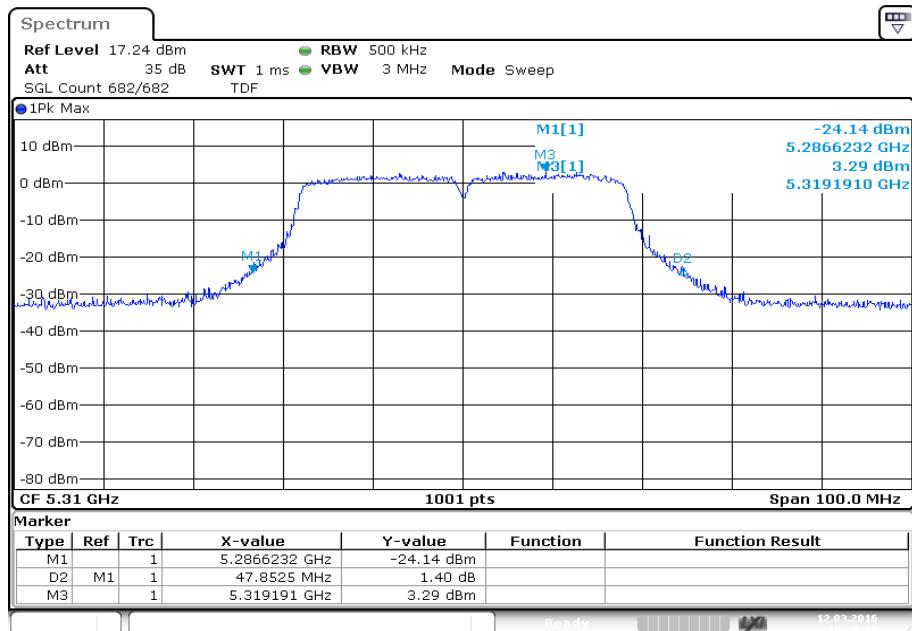
Plots: OFDM / n HT40 – mode, antenna port 2

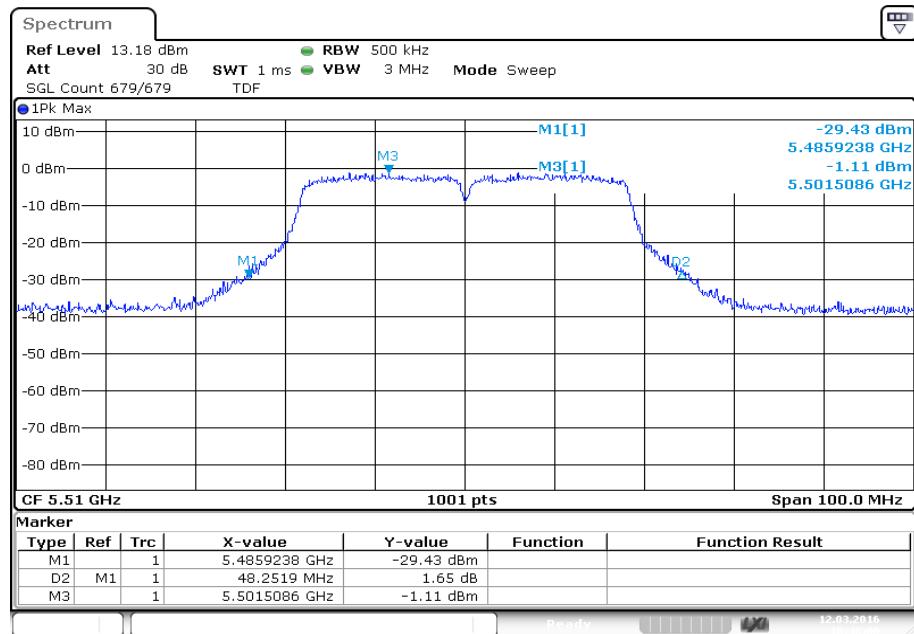
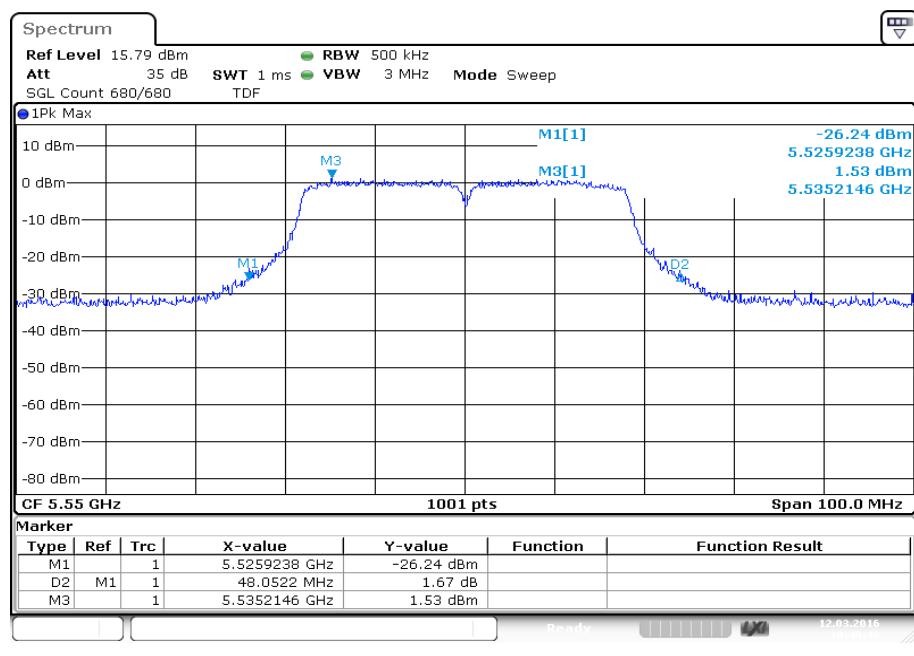
Plot 1: 5190 MHz

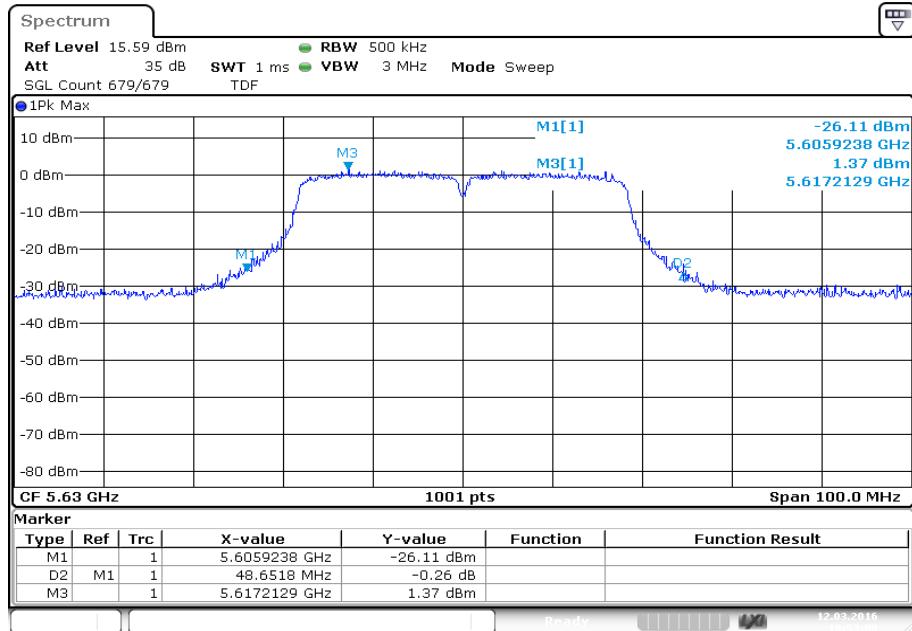
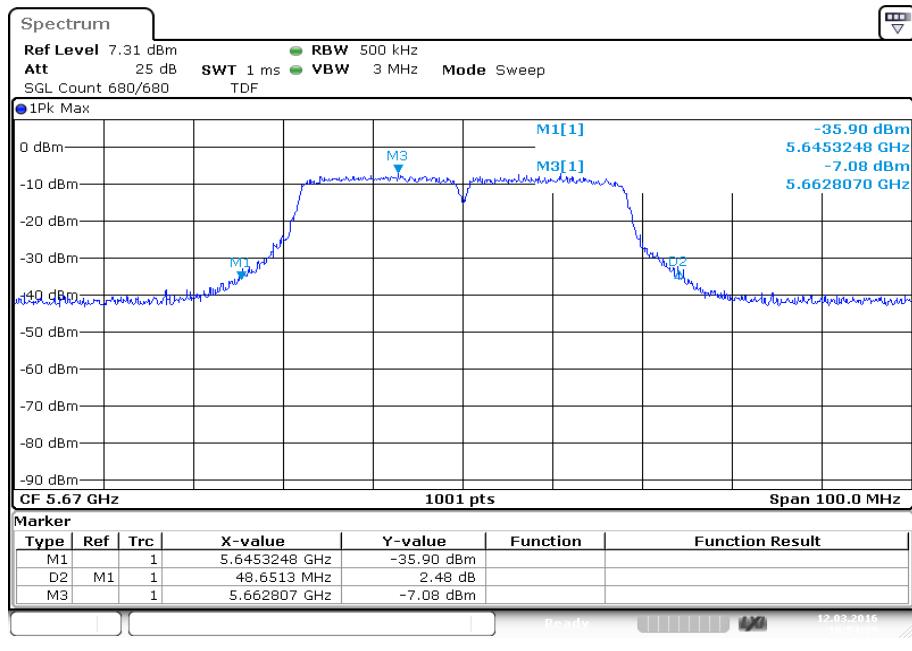


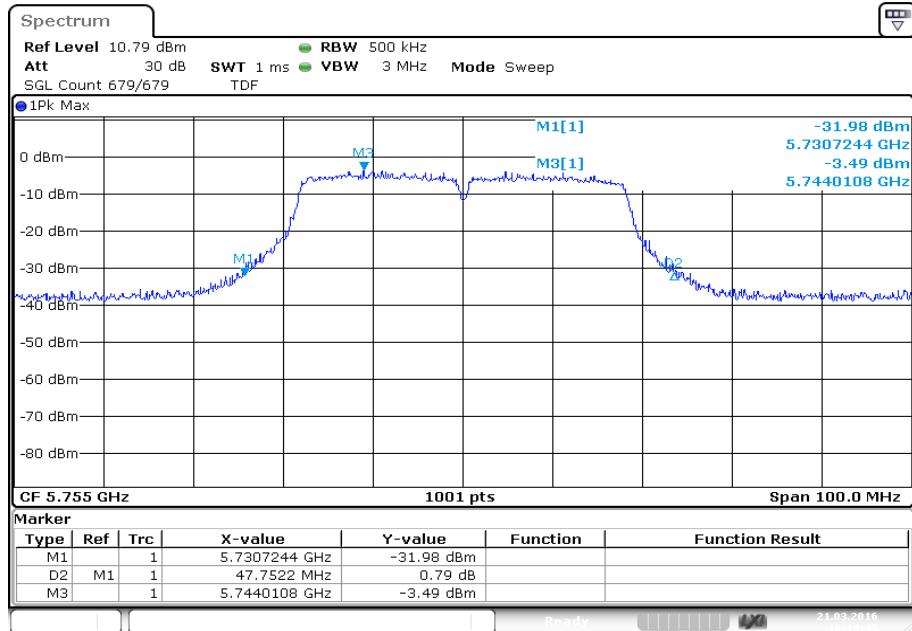
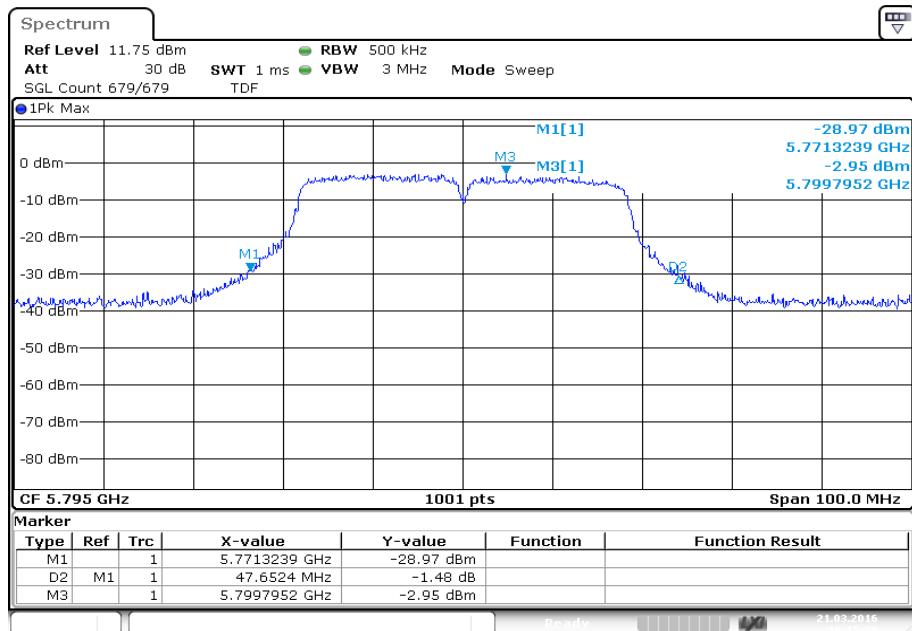
Plot 2: 5230 MHz



Plot 3: 5270 MHz**Plot 4: 5310 MHz**

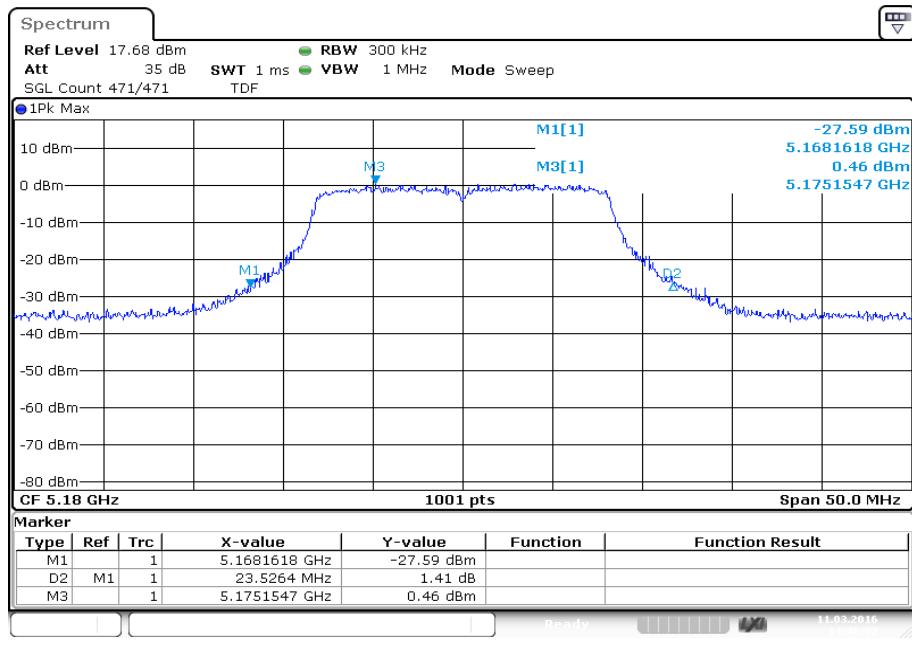
Plot 5: 5510 MHz**Plot 6: 5550 MHz**

Plot 7: 5630 MHz**Plot 8:** 5670 MHz

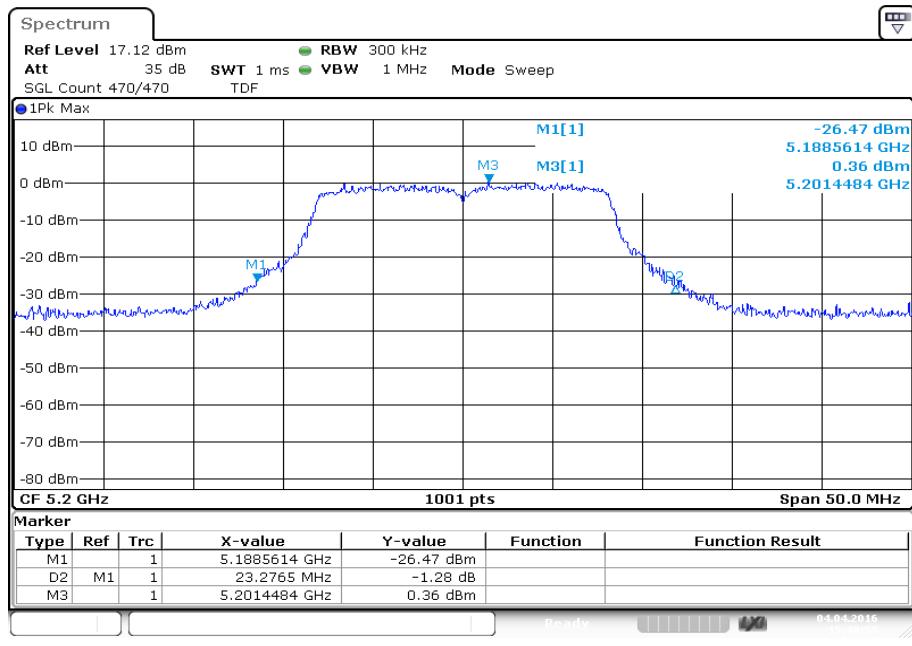
Plot 9: 5755 MHz**Plot 10: 5795 MHz**

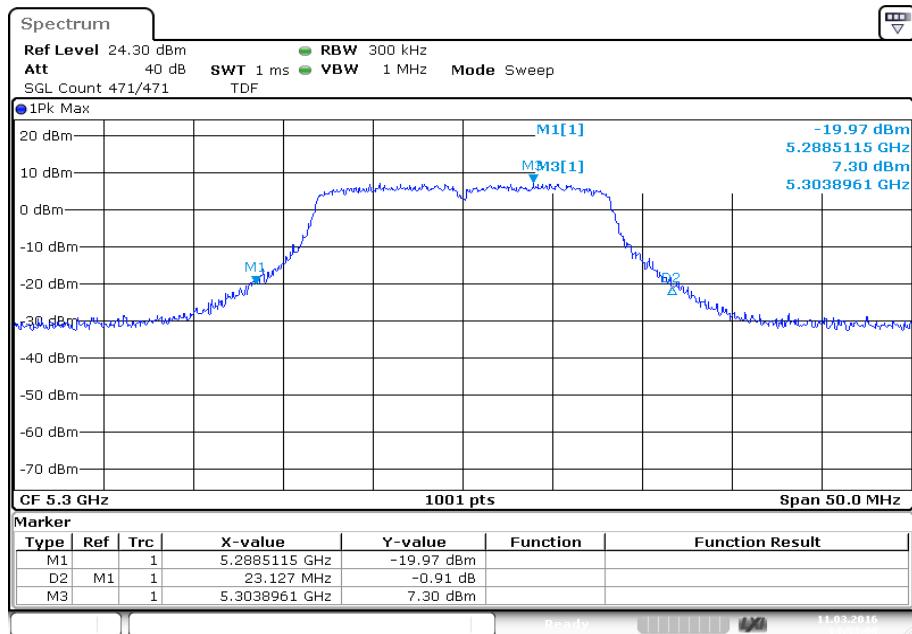
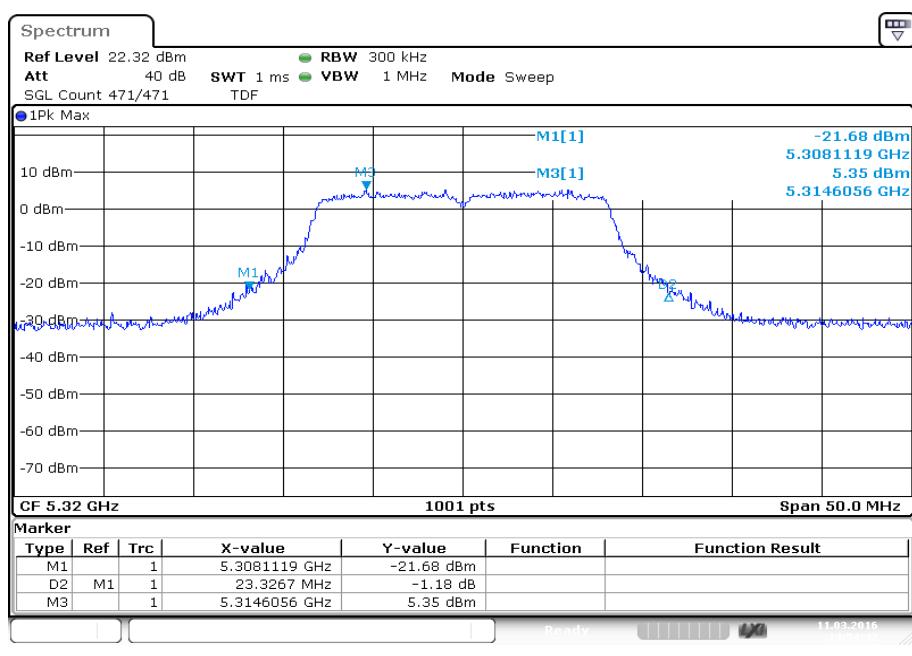
Plots: OFDM / a – mode, antenna port 3

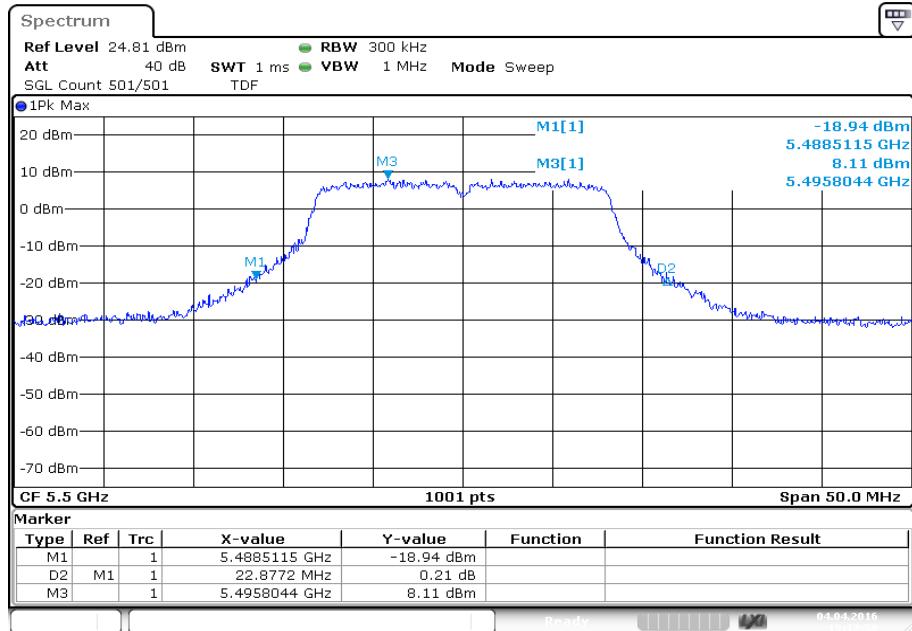
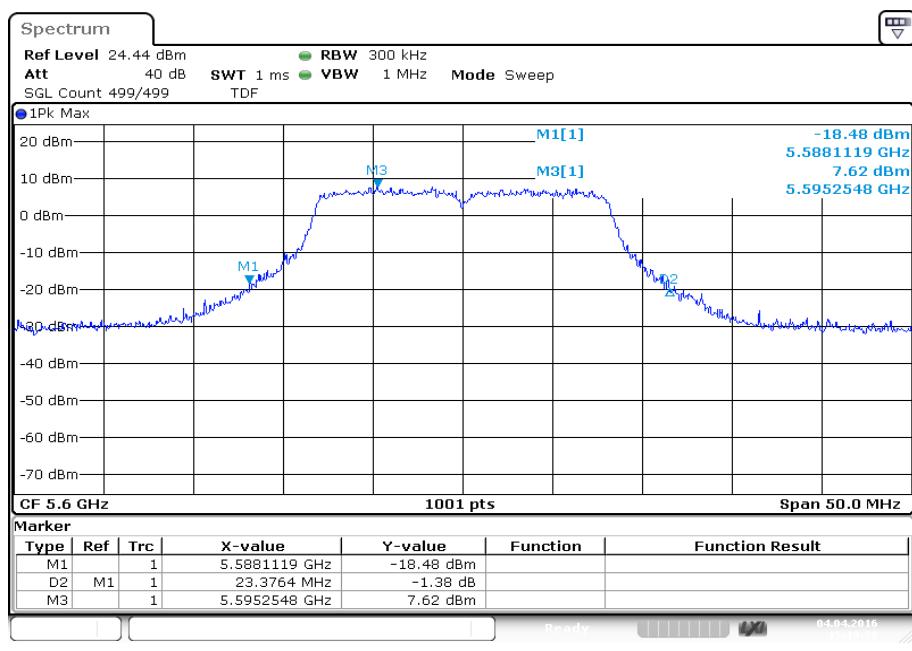
Plot 1: 5180 MHz

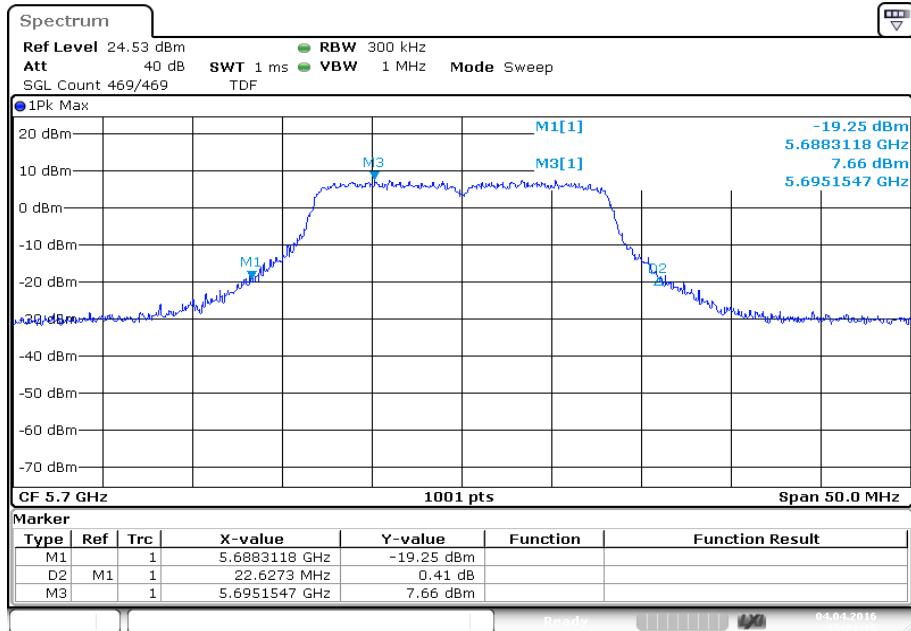
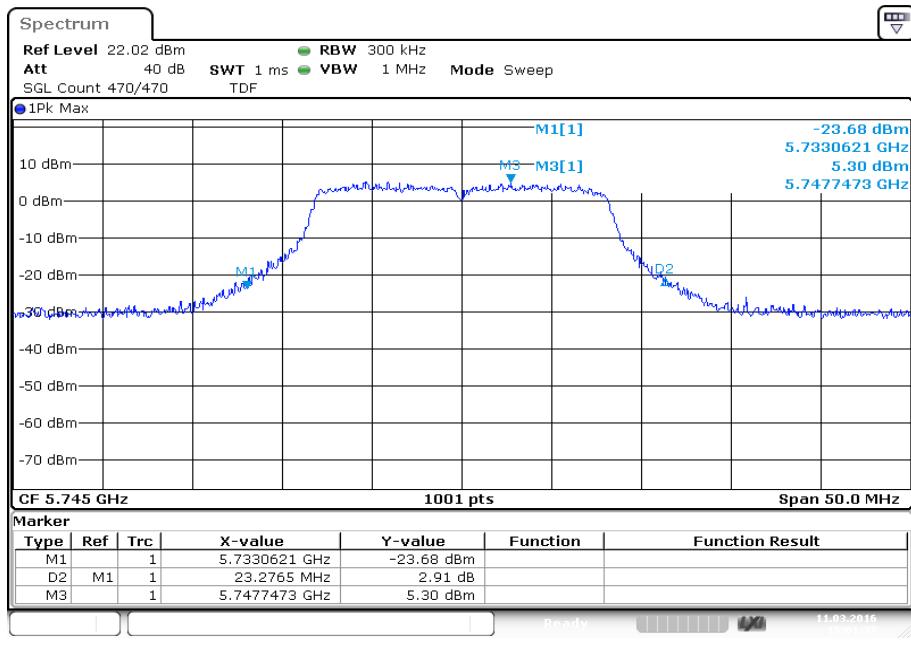


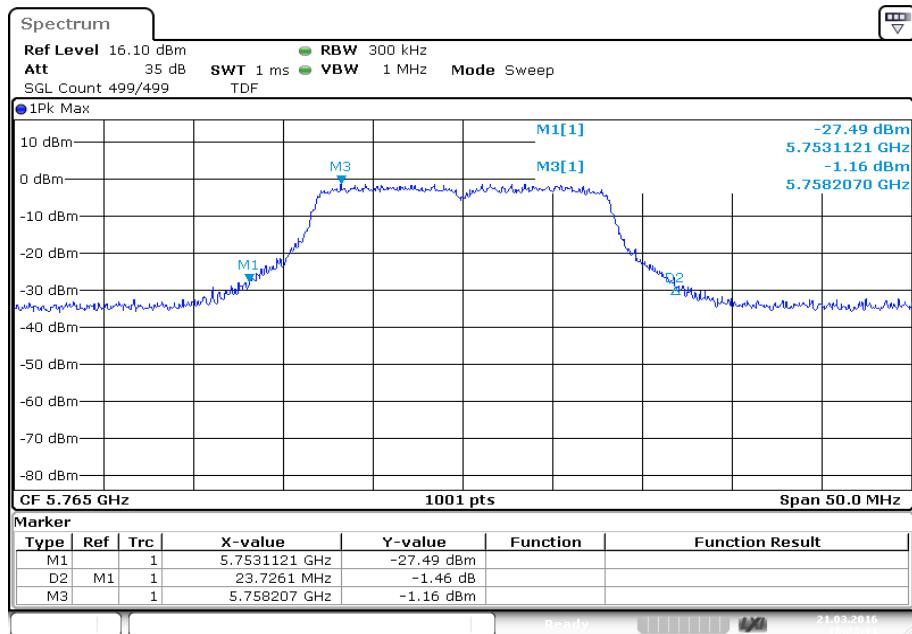
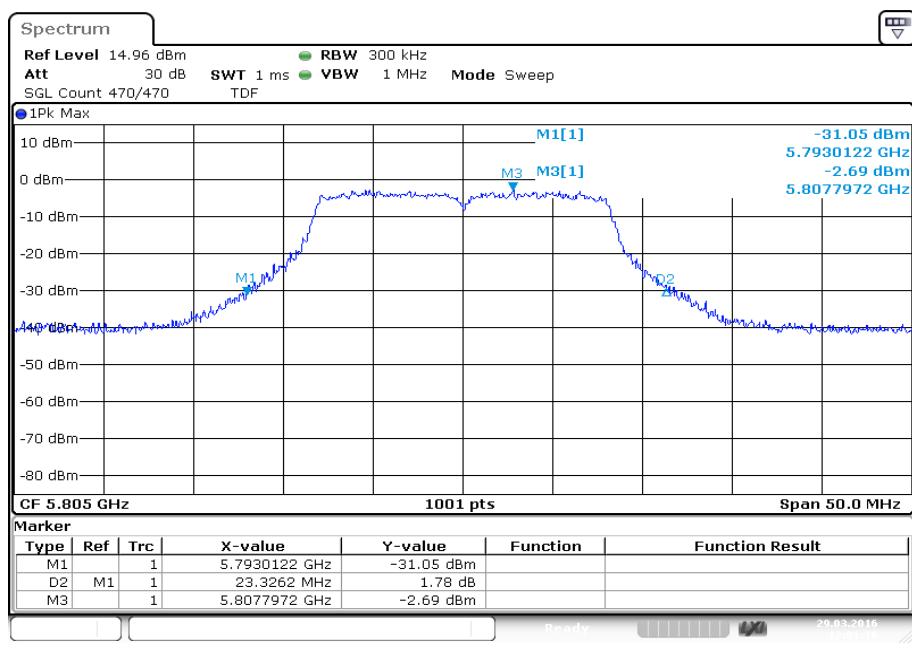
Plot 2: 5200 MHz

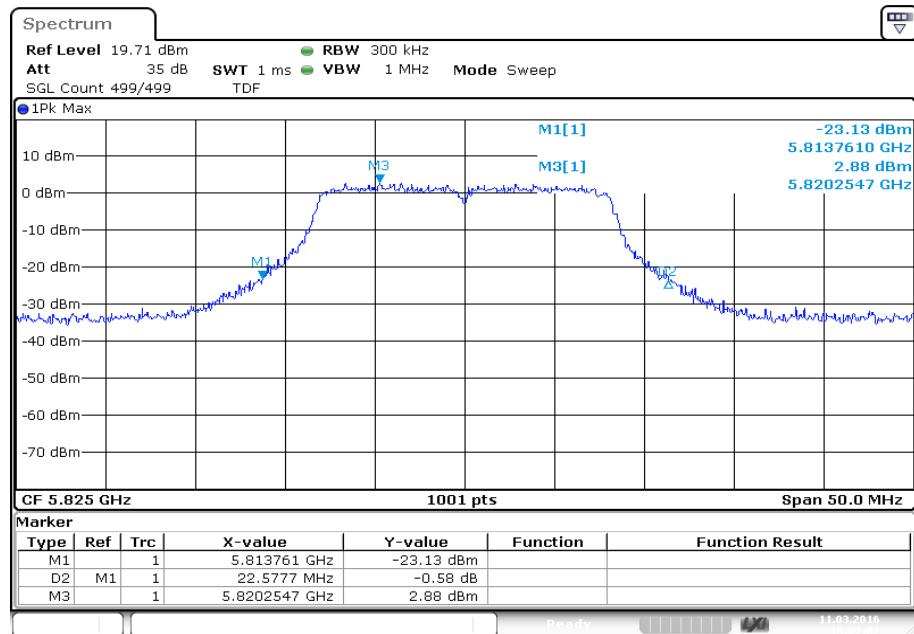


Plot 3: 5300 MHz**Plot 4: 5320 MHz**

Plot 5: 5500 MHz**Plot 6: 5600 MHz**

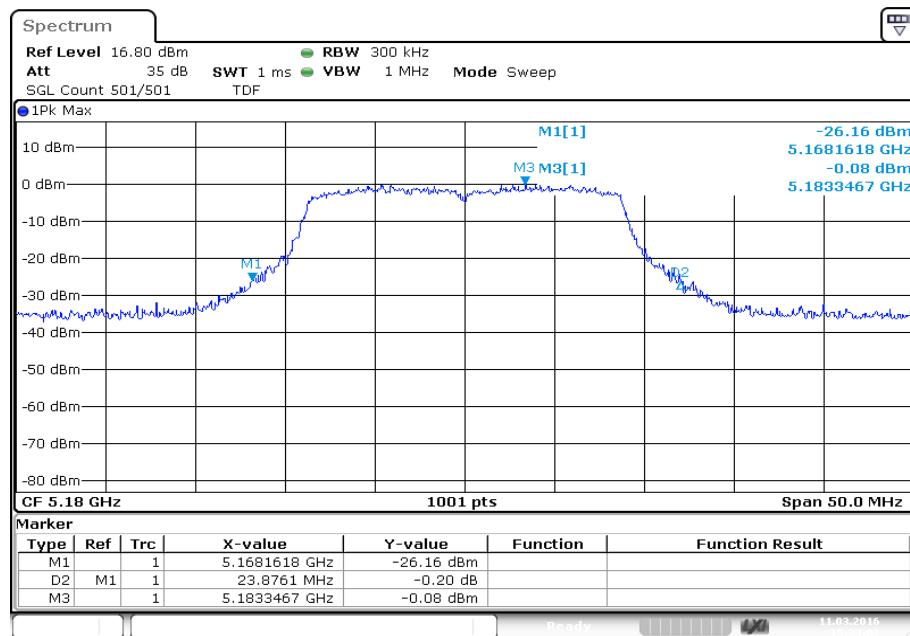
Plot 7: 5700 MHz**Plot 8:** 5745 MHz

Plot 9: 5765 MHz**Plot 10: 5805 MHz**

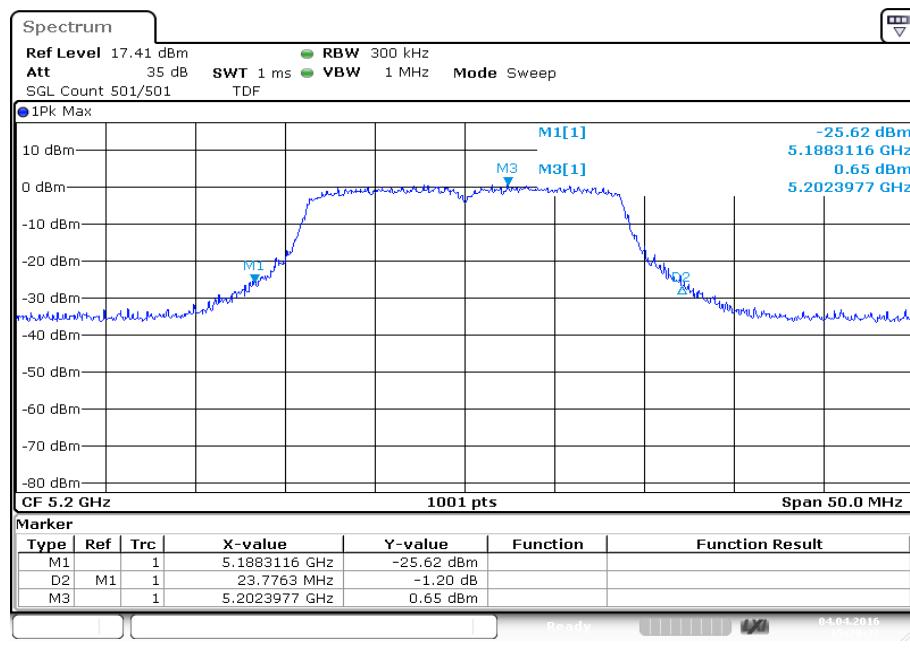
Plot 11: 5825 MHz

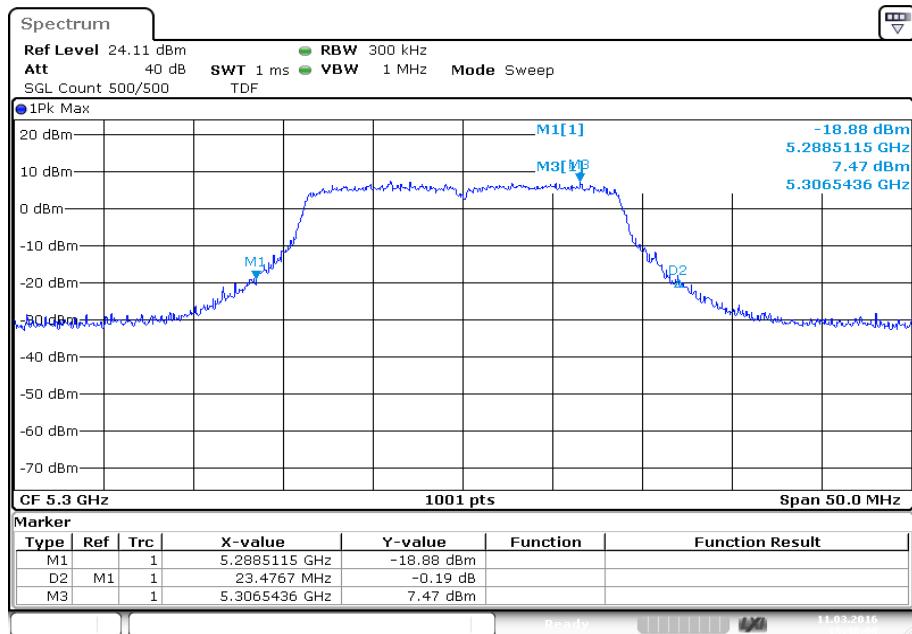
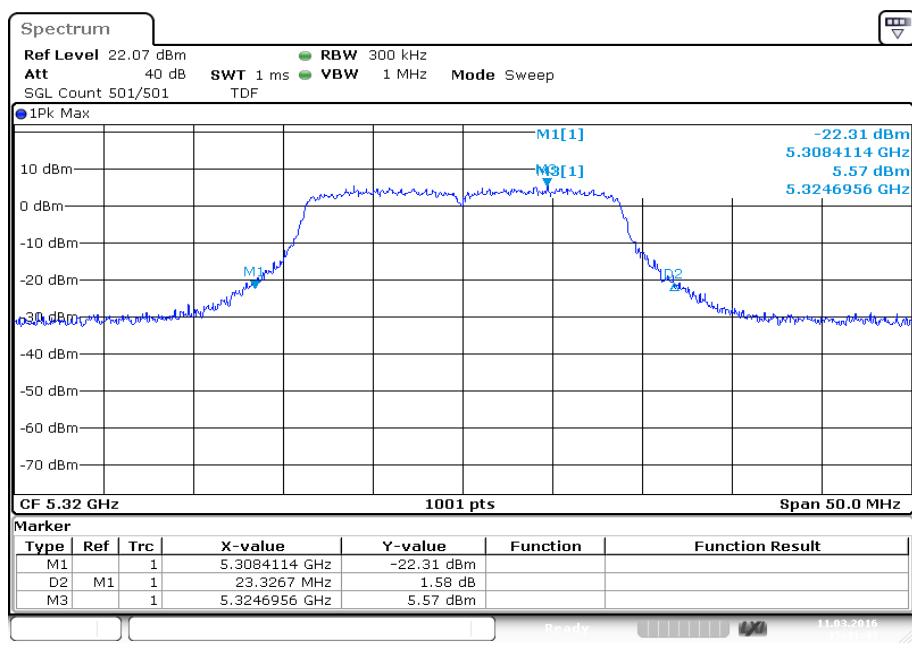
Plots: OFDM / n HT20 – mode, antenna port 3

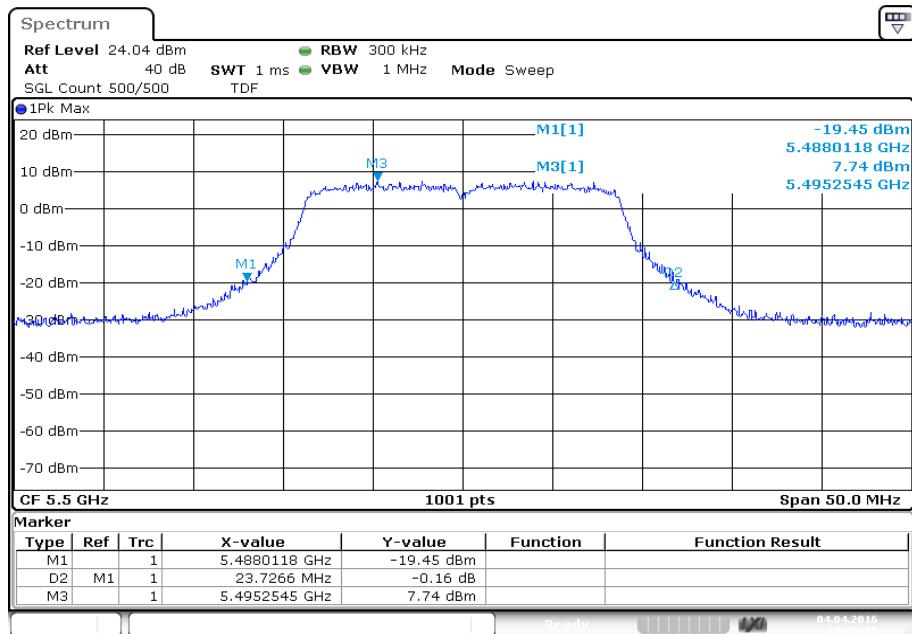
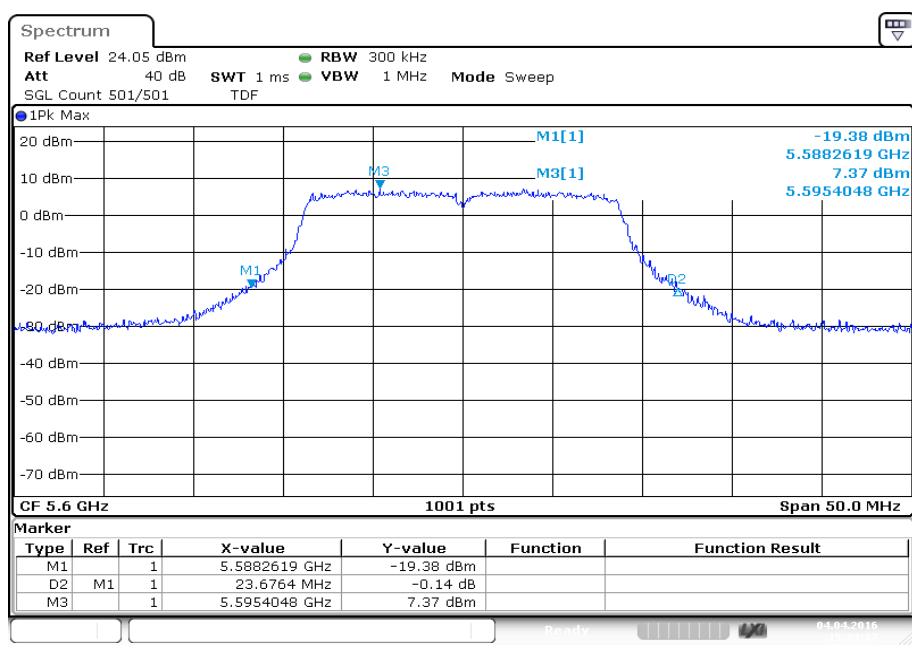
Plot 1: 5180 MHz

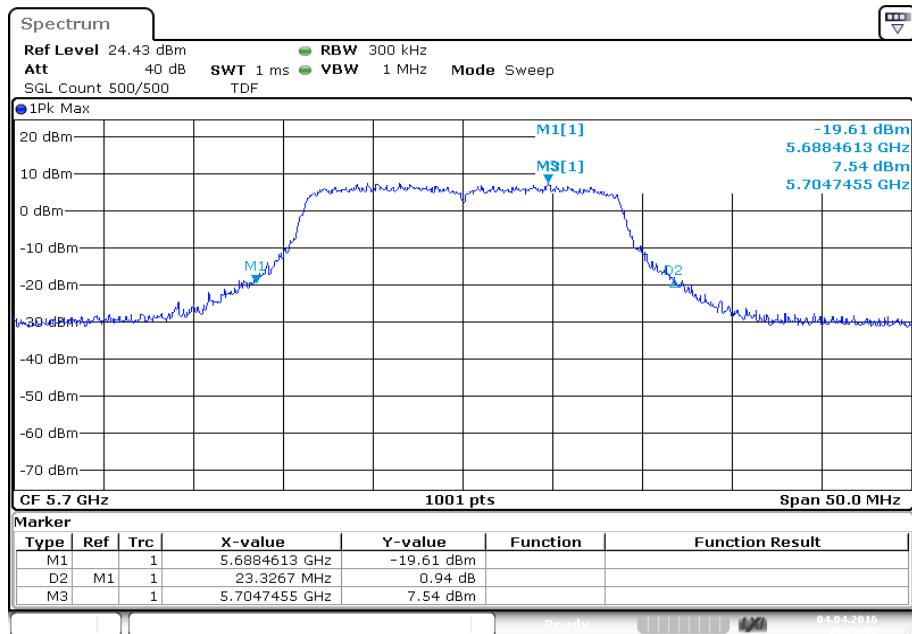
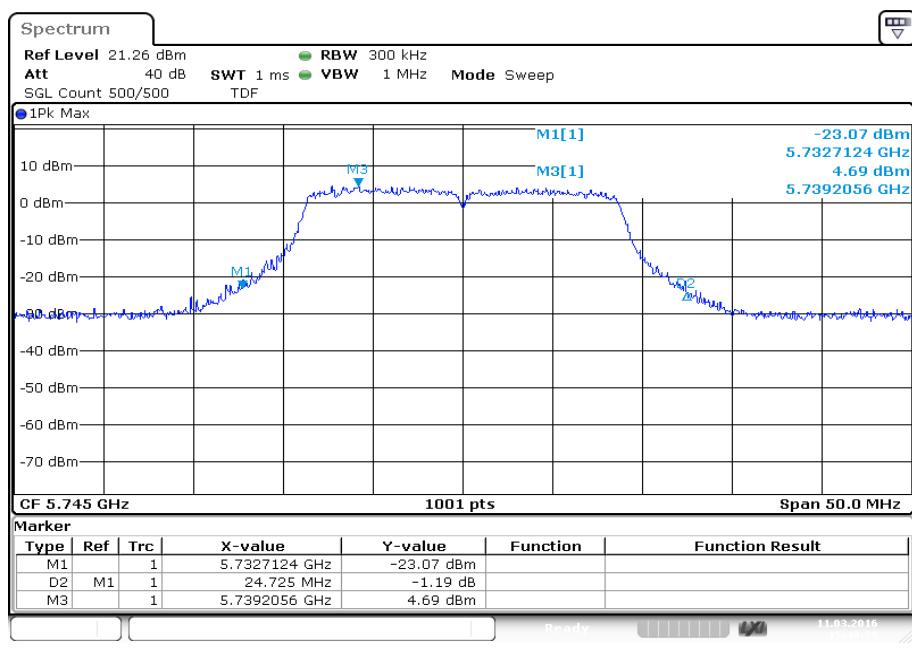


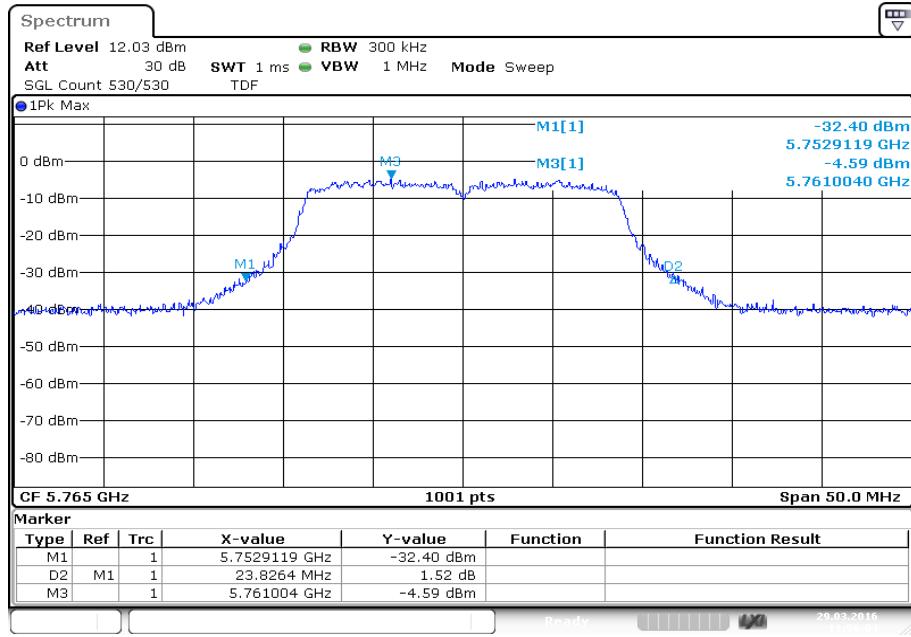
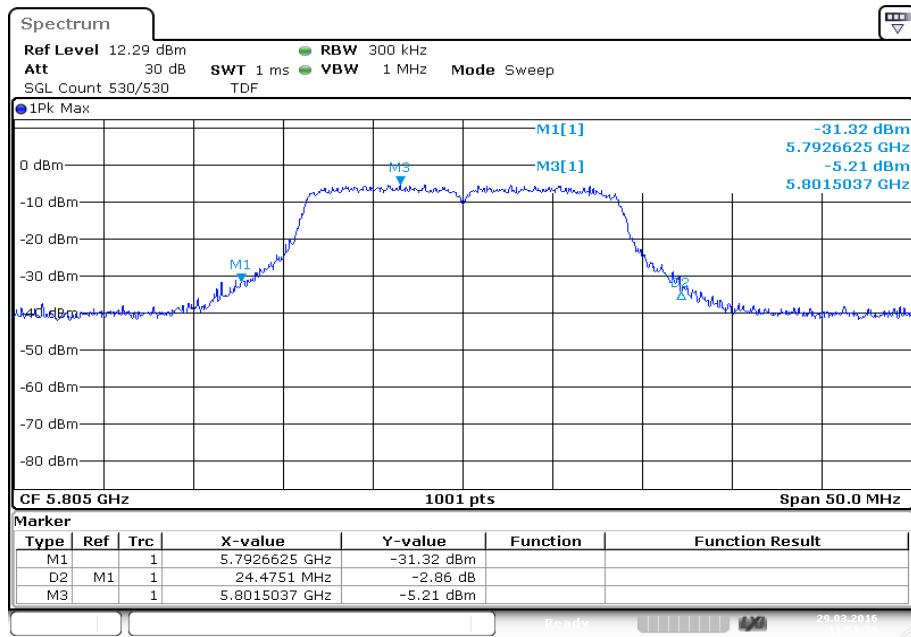
Plot 2: 5200 MHz

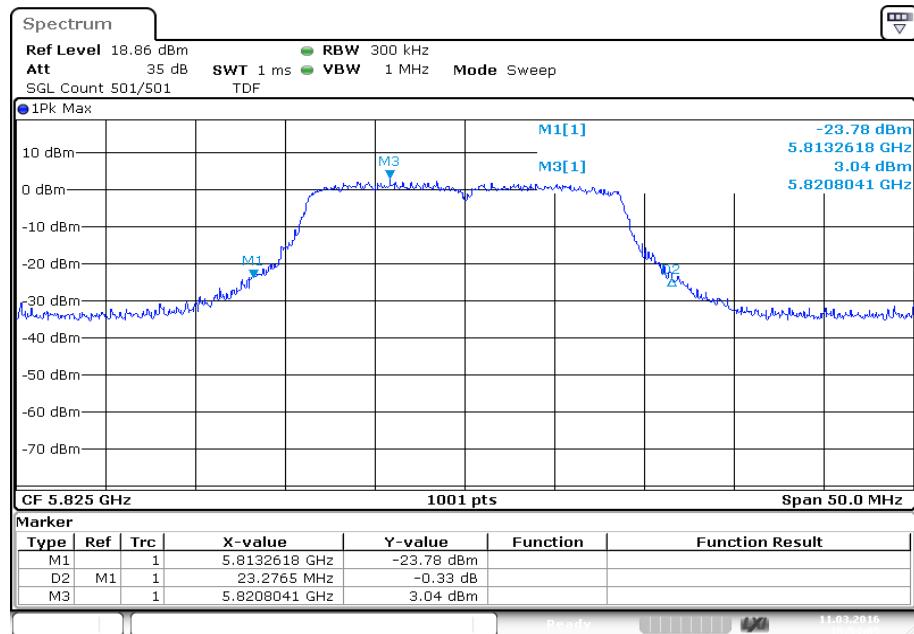


Plot 3: 5300 MHz**Plot 4: 5320 MHz**

Plot 5: 5500 MHz**Plot 6: 5600 MHz**

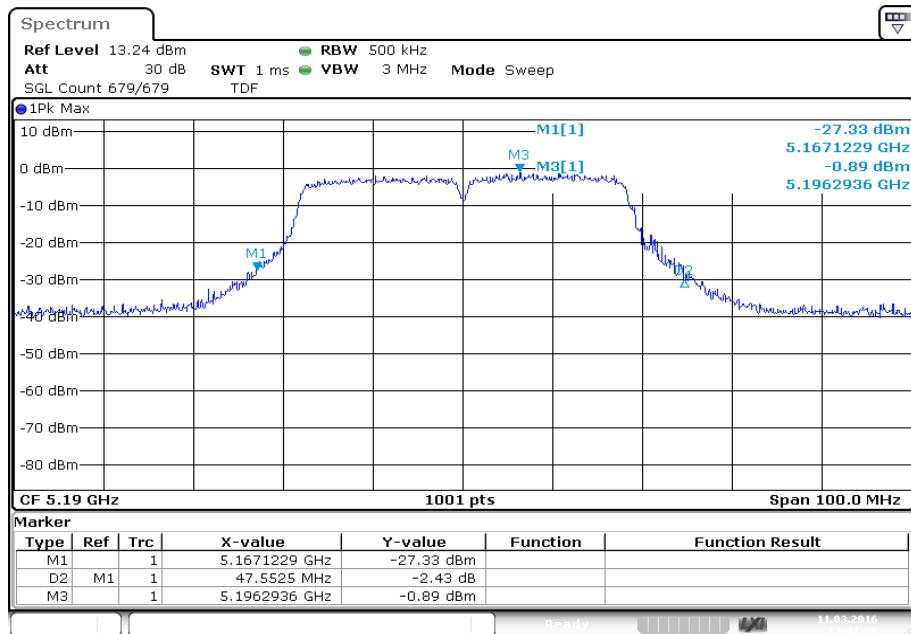
Plot 7: 5700 MHz**Plot 8:** 5745 MHz

Plot 9: 5765 MHz**Plot 10: 5805 MHz**

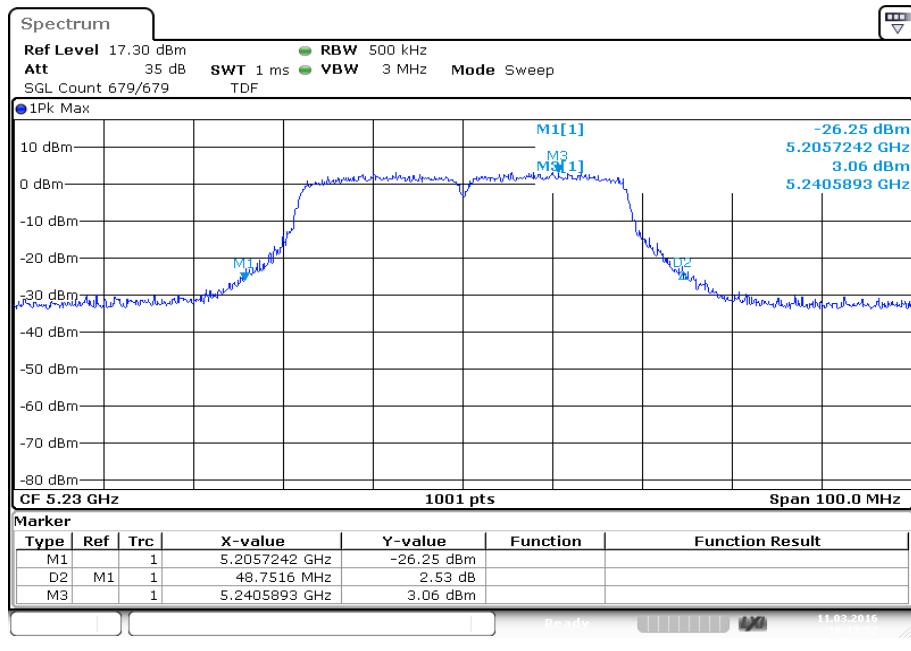
Plot 11: 5825 MHz

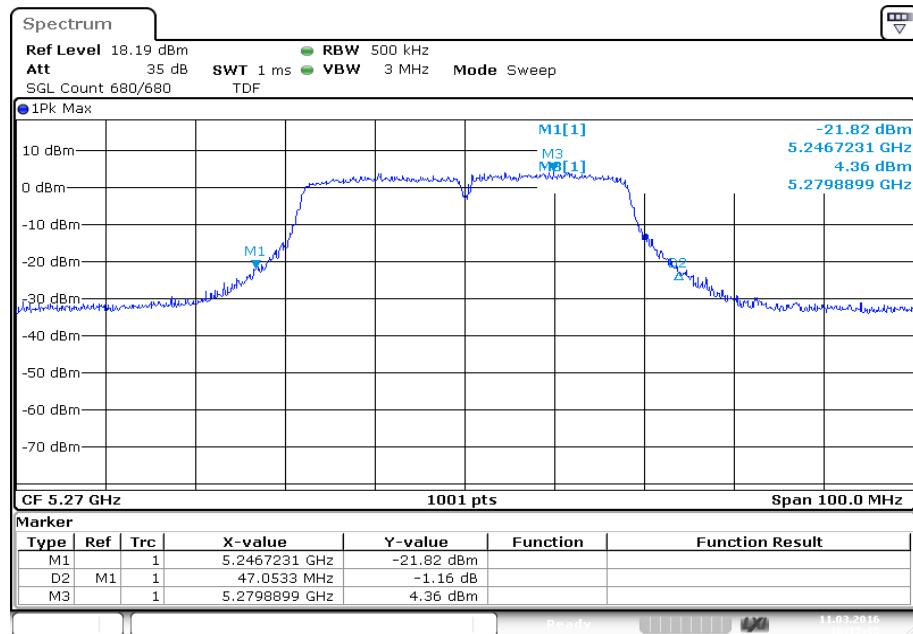
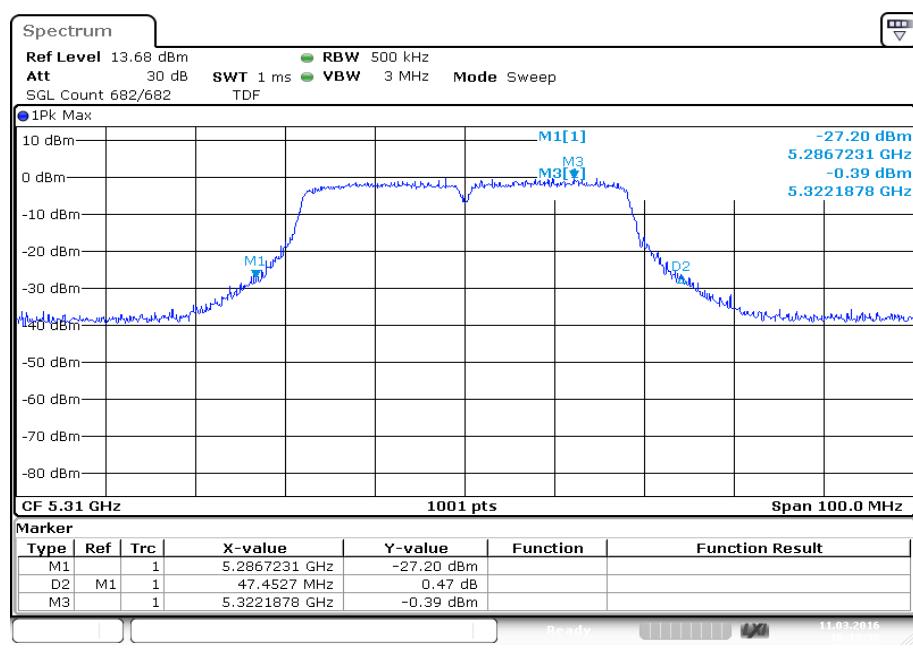
Plots: OFDM / n HT40 – mode, antenna port 3

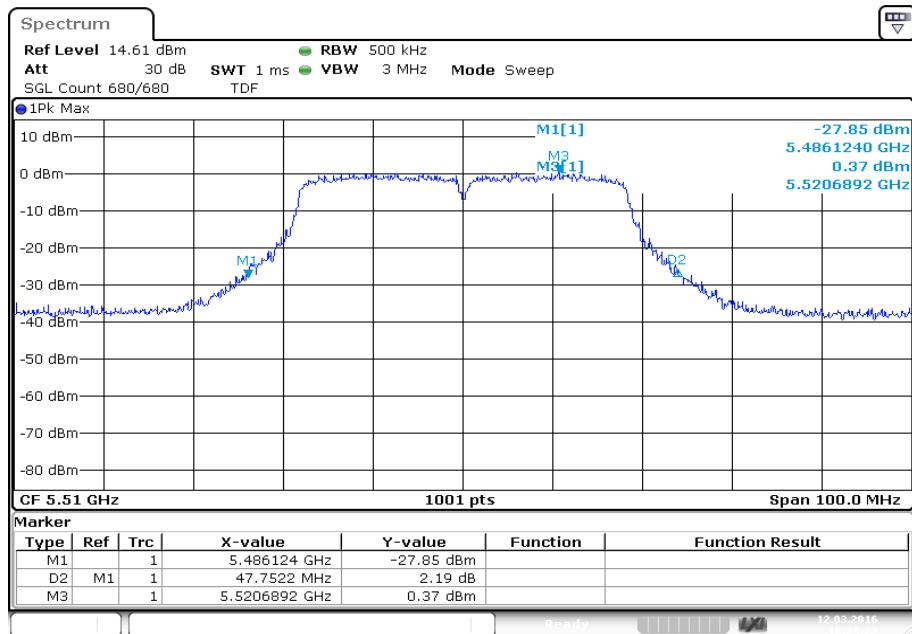
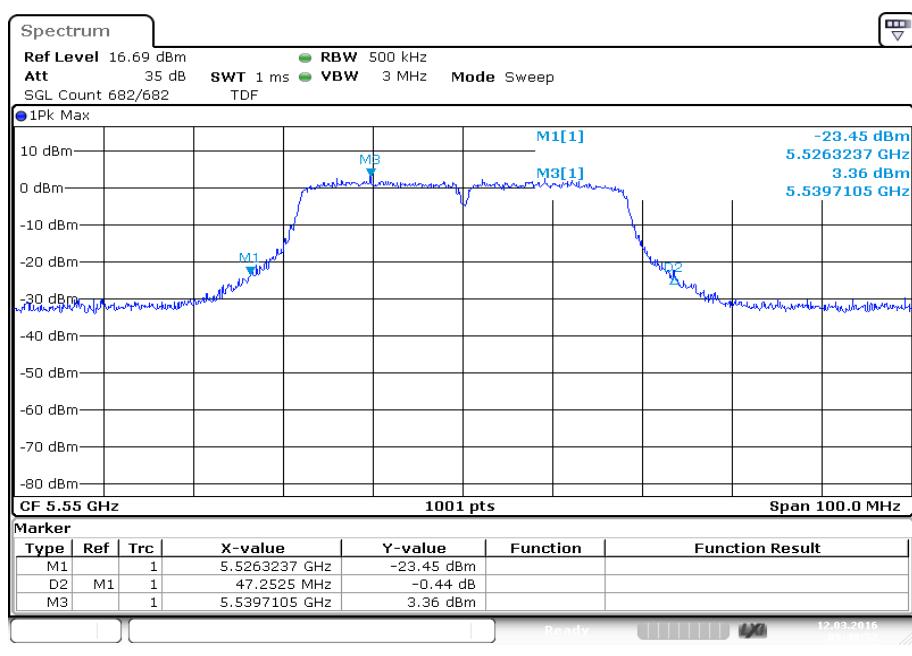
Plot 1: 5190 MHz

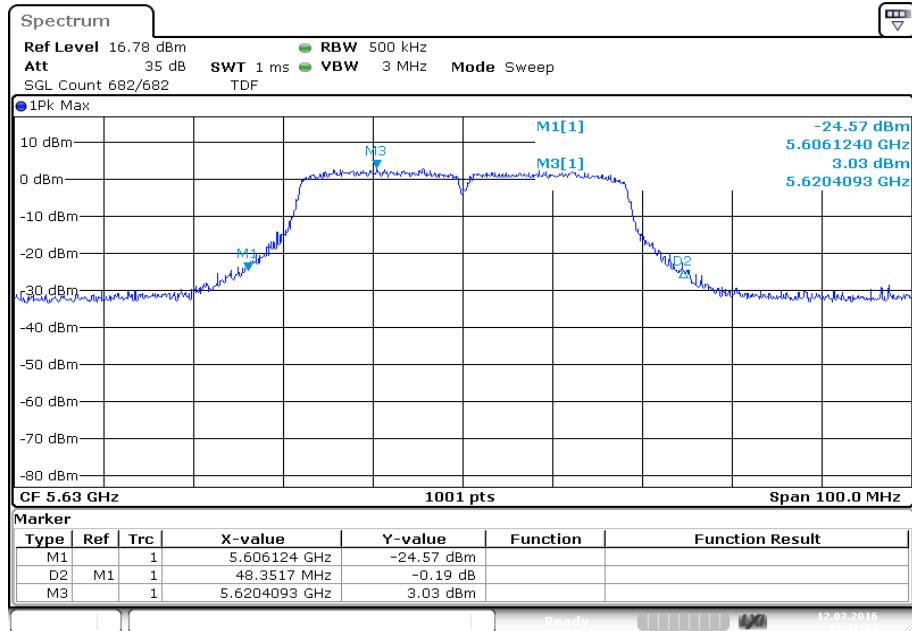
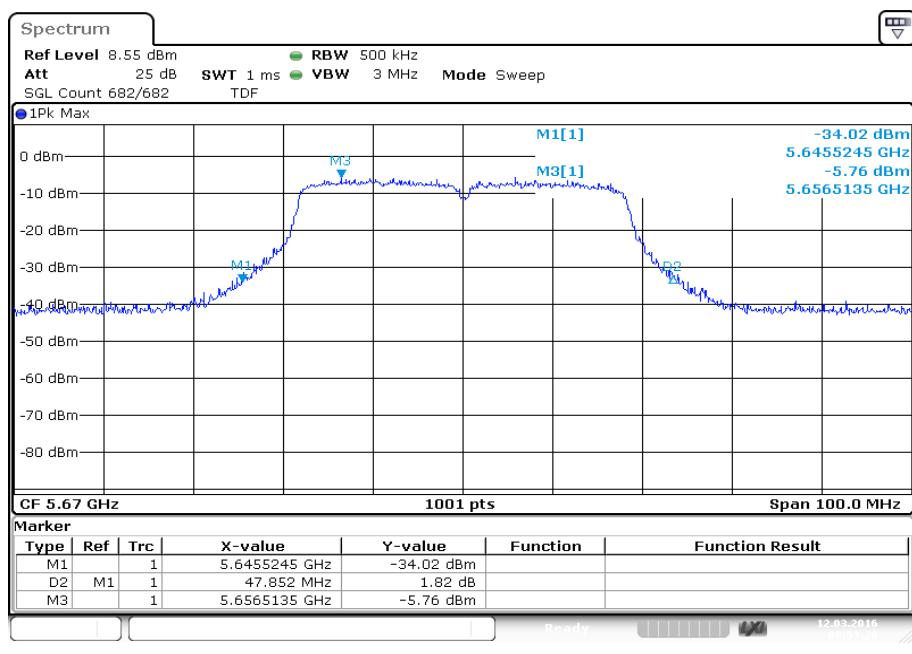


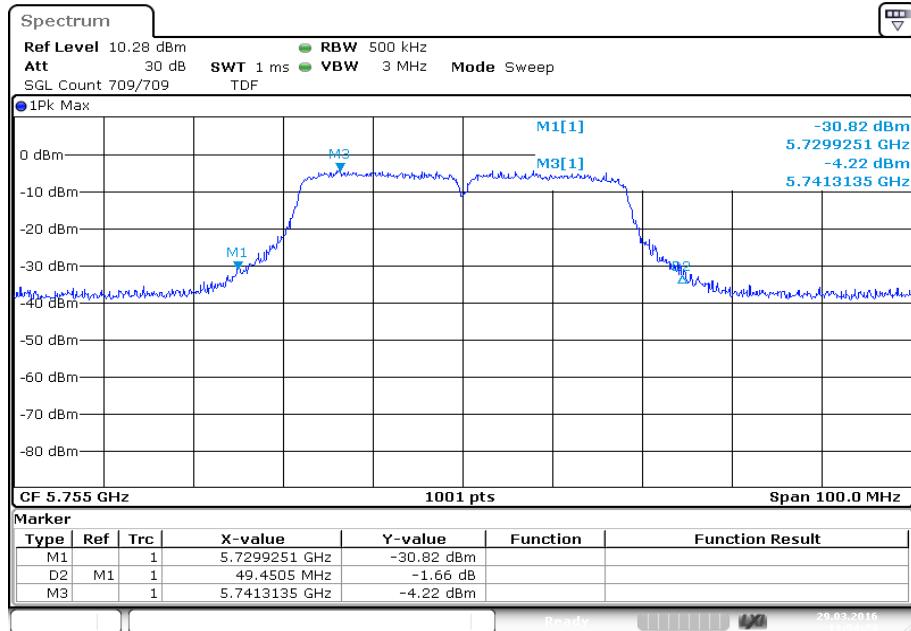
Plot 2: 5230 MHz



Plot 3: 5270 MHz**Plot 4: 5310 MHz**

Plot 5: 5510 MHz**Plot 6: 5550 MHz**

Plot 7: 5630 MHz**Plot 8:** 5670 MHz

Plot 9: 5755 MHz**Plot 10: 5795 MHz**