



## 6. 6dB Bandwidth Measurement Data

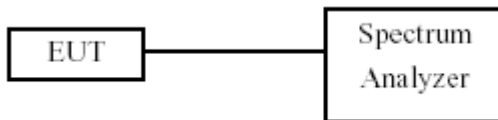
### 6.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

### 6.2 Test Procedures

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW of spectrum analyzer to 1~5% of the emission bandwidth and VBW  $\geq$  3x RBW.
- c. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.
- d. The 6dB Bandwidth was measured and recorded.

### 6.3 Test Setup Layout



### 6.4 Measurement Equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	R&S	FSP40	100047	2013/03/15	2014/03/14



### 6.5 Test Result and Data

Test Date: Aug. 27, 2013

Temperature: 25°C

Atmospheric pressure: 1019 hPa

Humidity: 42%

Modulation Standard	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	
			ANT R	ANT L
802.11b (11Mbps)	01	2412	10.2	10.2
	06	2437	10.1	10.1
	11	2462	10.1	10.1
802.11g (54Mbps)	01	2412	16.6	16.6
	06	2437	16.6	16.7
	11	2462	16.6	16.6
802.11n HT20 (130Mbps)	01	2412	17.8	17.8
	06	2437	17.8	17.9
	11	2462	17.8	17.9
802.11n HT40 (270Mbps)	03	2422	36.4	36.4
	06	2437	36.4	36.6
	09	2452	36.4	36.4

Test Date: Aug. 28, 2013

Temperature: 26°C

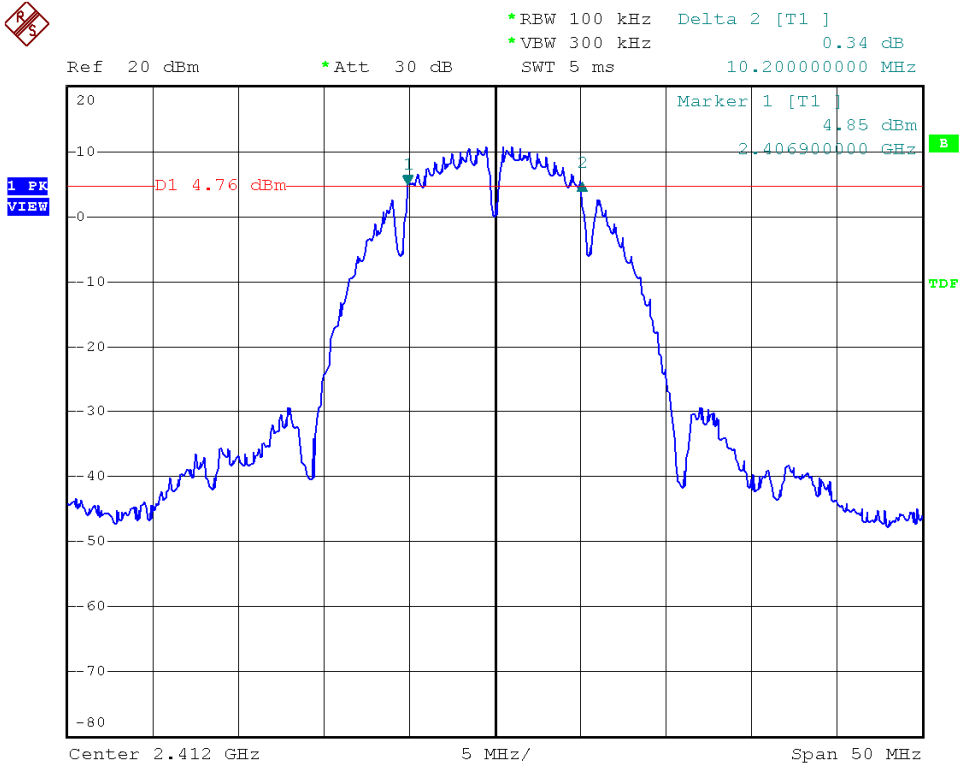
Atmospheric pressure: 1019 hPa

Humidity: 45%

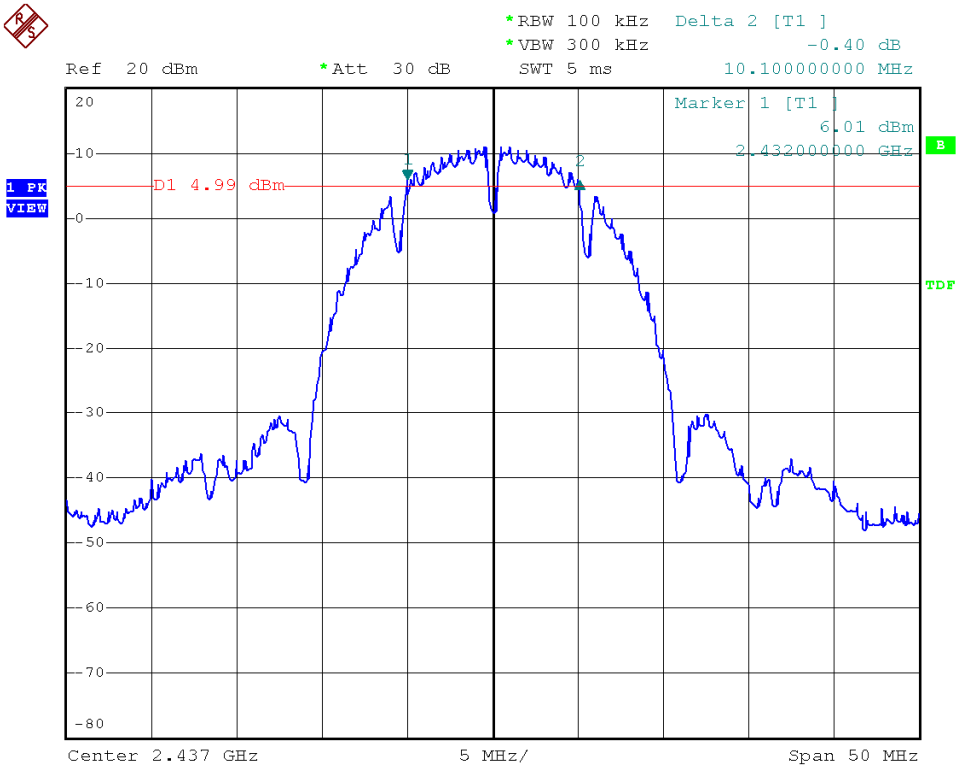
Modulation Standard	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	
			ANT R	ANT L
802.11a (54Mbps)	149	5745	16.6	16.6
	157	5785	16.6	16.6
	165	5825	16.7	16.6
802.11an HT20 (130Mbps)	149	5745	17.8	17.9
	157	5785	17.8	17.8
	165	5825	17.8	17.8
802.11an HT40 (270Mbps)	151	5755	36.4	36.6
	155	5775	36.4	36.4
	159	5795	36.4	36.4



Modulation Standard: 802.11b (11Mbps), ANT R  
Channel: 01

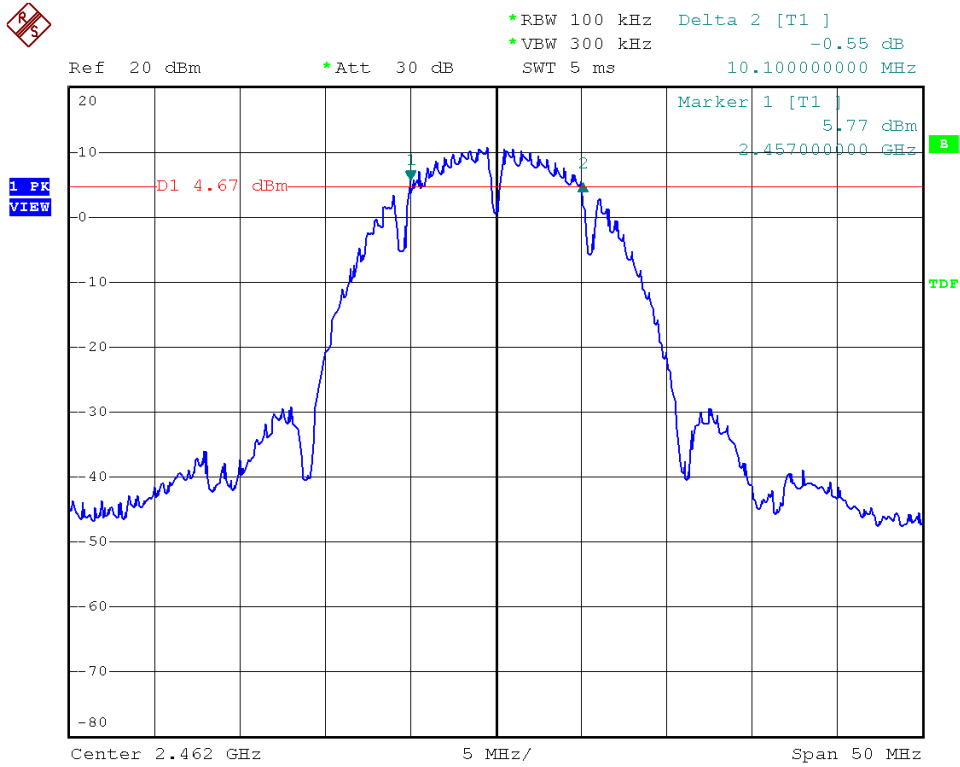


Modulation Standard: 802.11b (11Mbps), ANT R  
Channel: 06

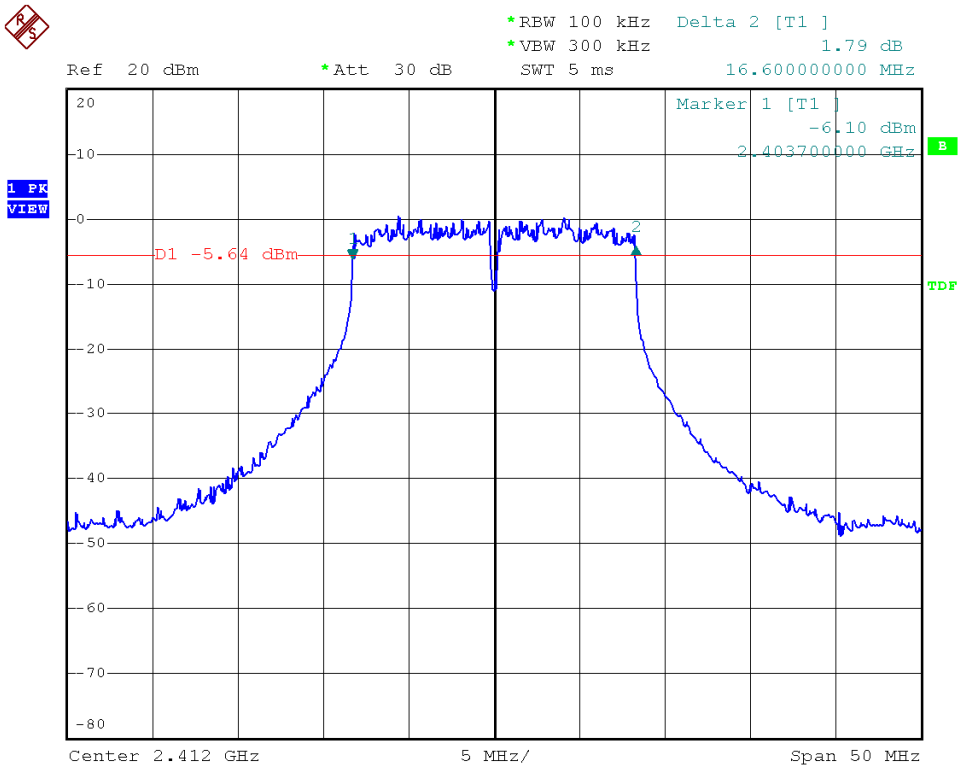




Modulation Standard: 802.11b (11Mbps), ANT R  
Channel: 11

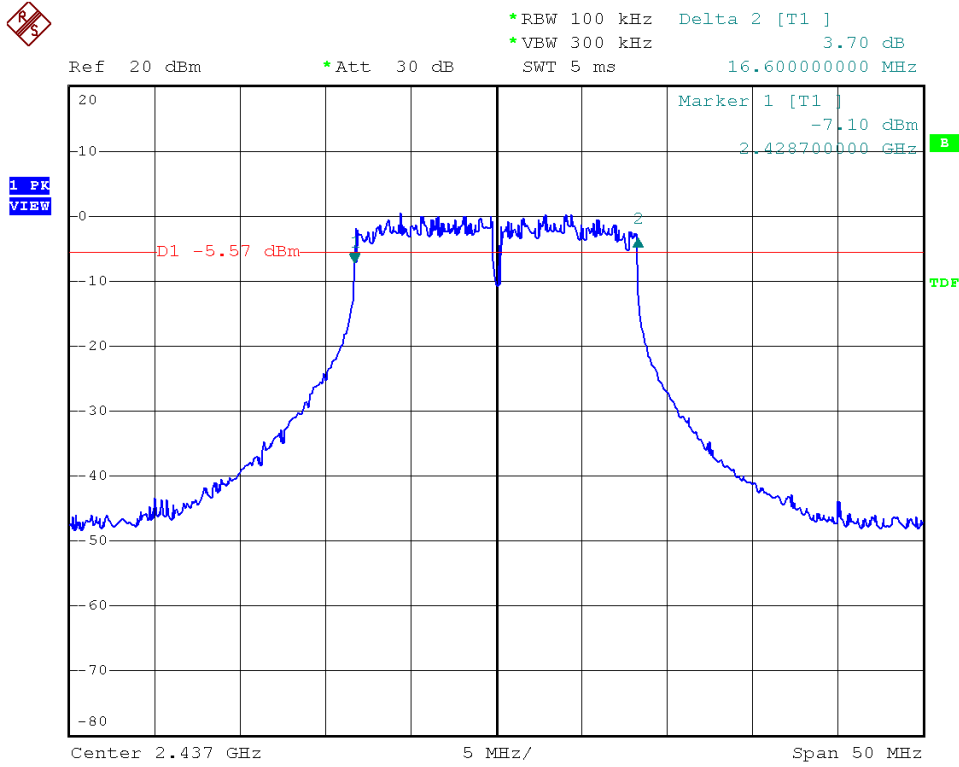


Modulation Standard: 802.11g (54Mbps), ANT R  
Channel: 01

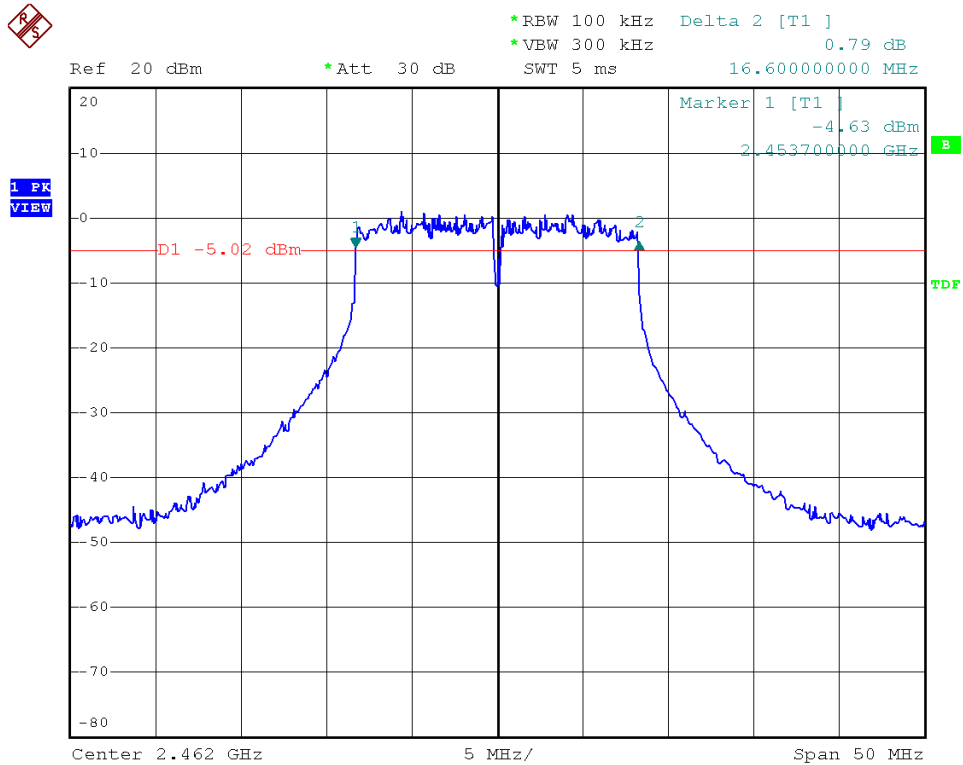




Modulation Standard: 802.11g (54Mbps), ANT R  
Channel: 06

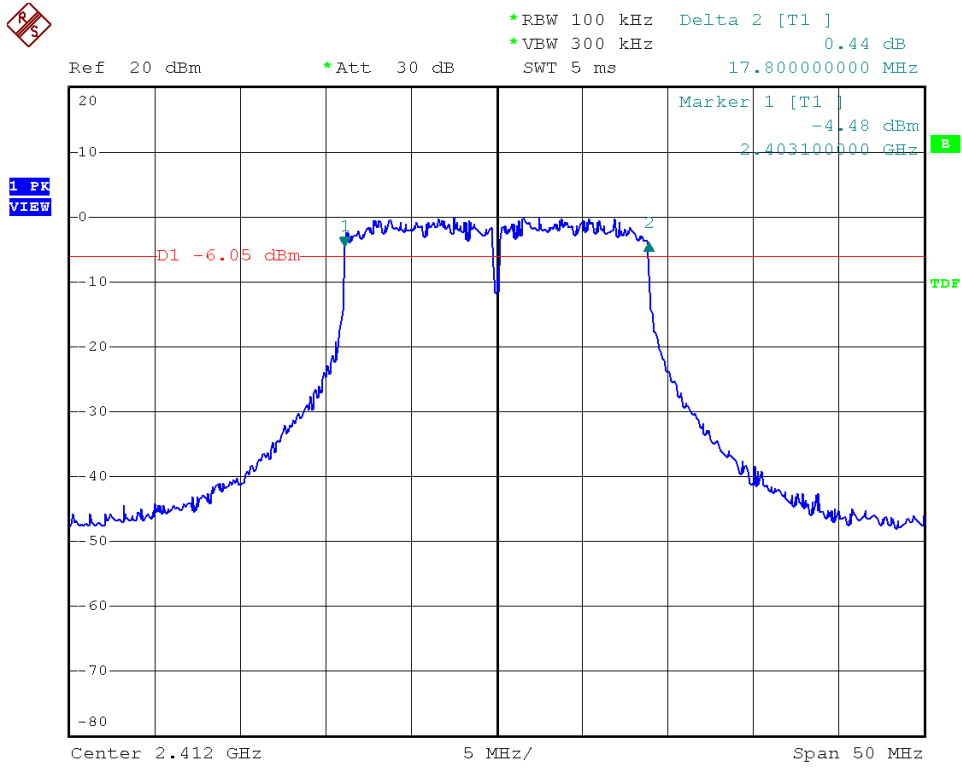


Modulation Standard: 802.11g (54Mbps), ANT R  
Channel: 11

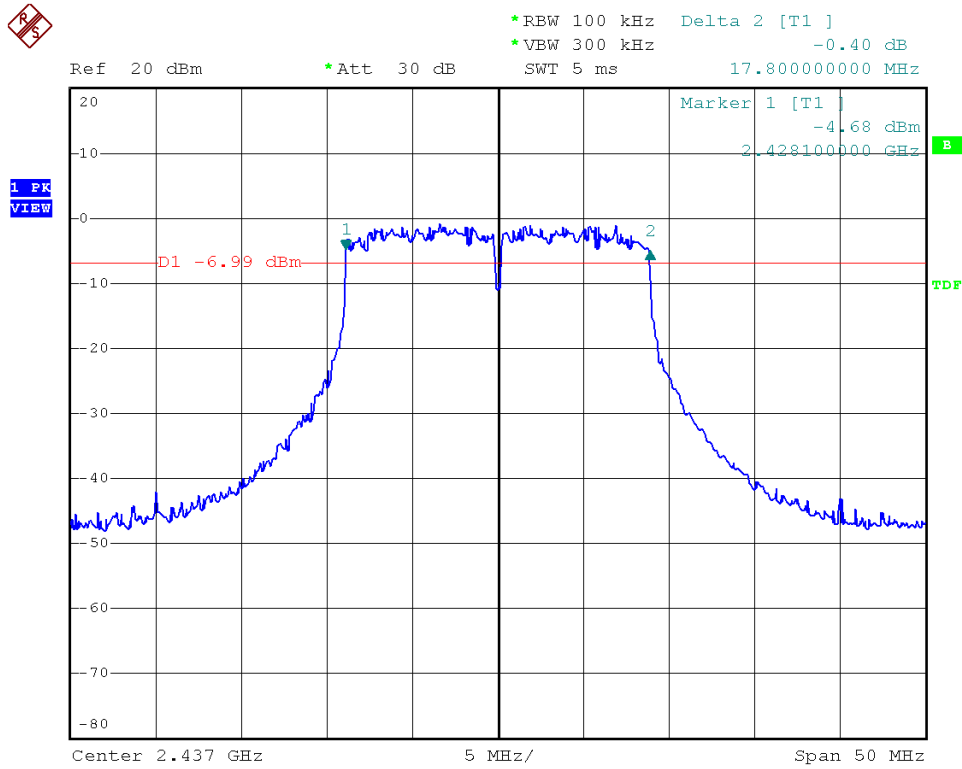




Modulation Standard: 802.11n HT20 (130Mbps), ANT R  
Channel: 01

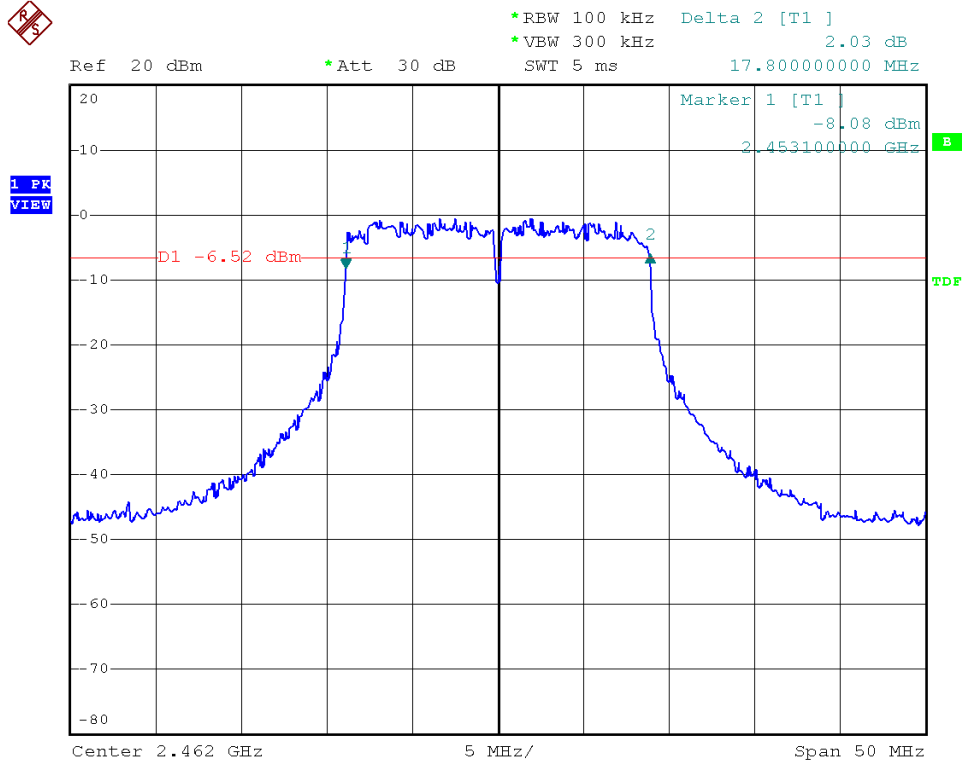


Modulation Standard: 802.11n HT20 (130Mbps), ANT R  
Channel: 06

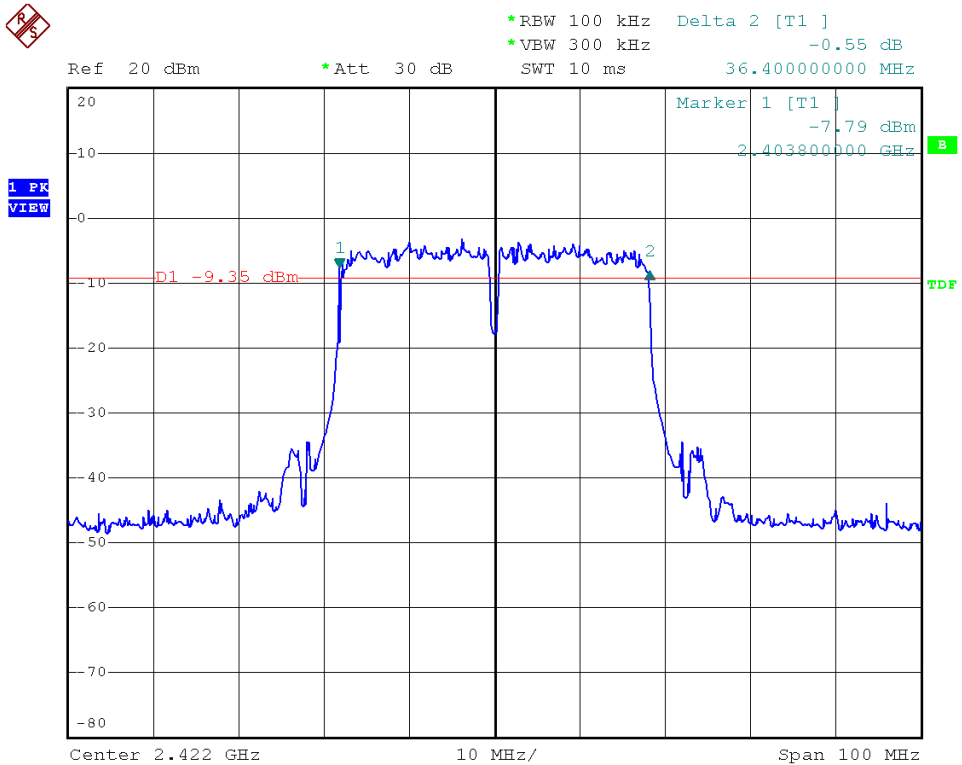




Modulation Standard: 802.11n HT20 (130Mbps), ANT R  
Channel: 11

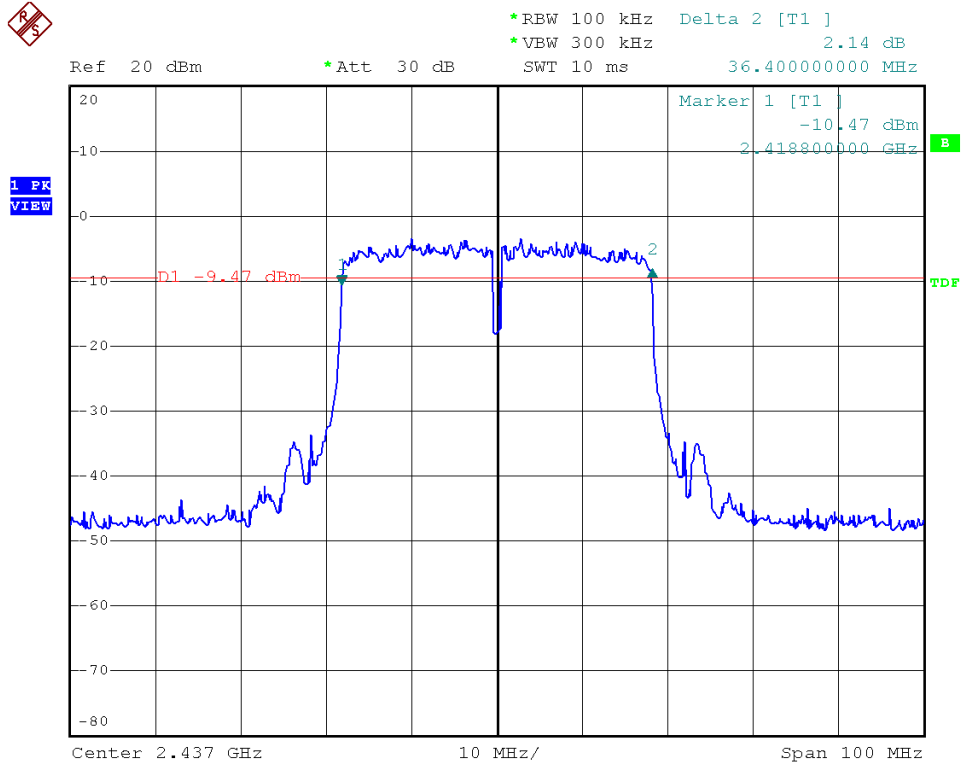


Modulation Standard: 802.11n HT40 (270Mbps), ANT R  
Channel: 03

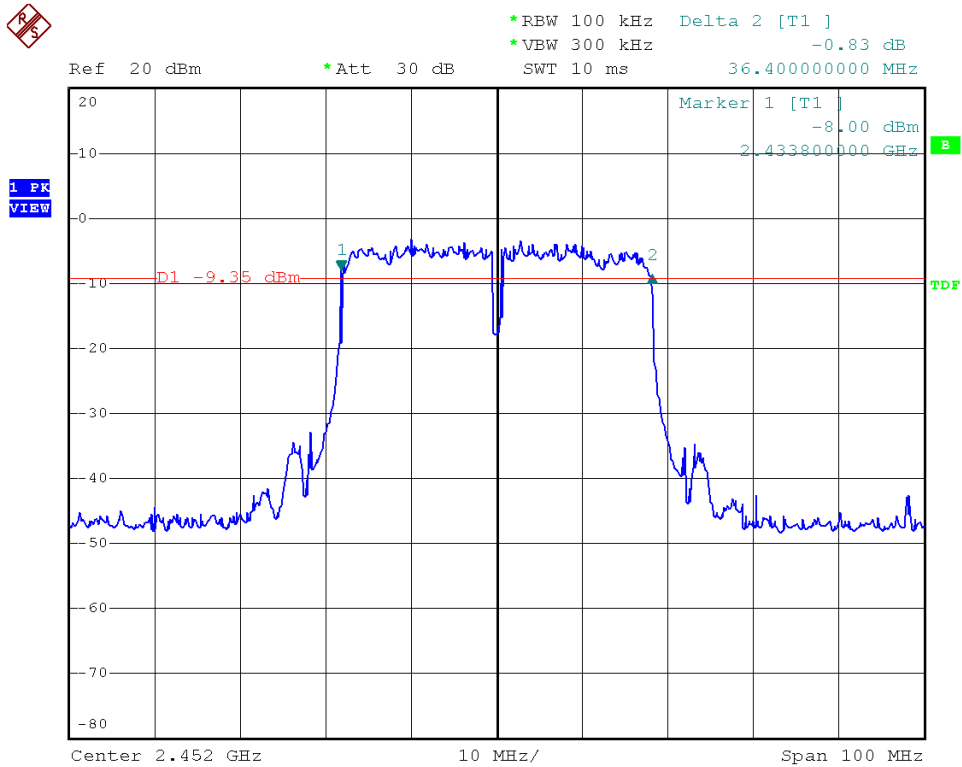




Modulation Standard: 802.11n HT40 (270Mbps), ANT R  
Channel: 06



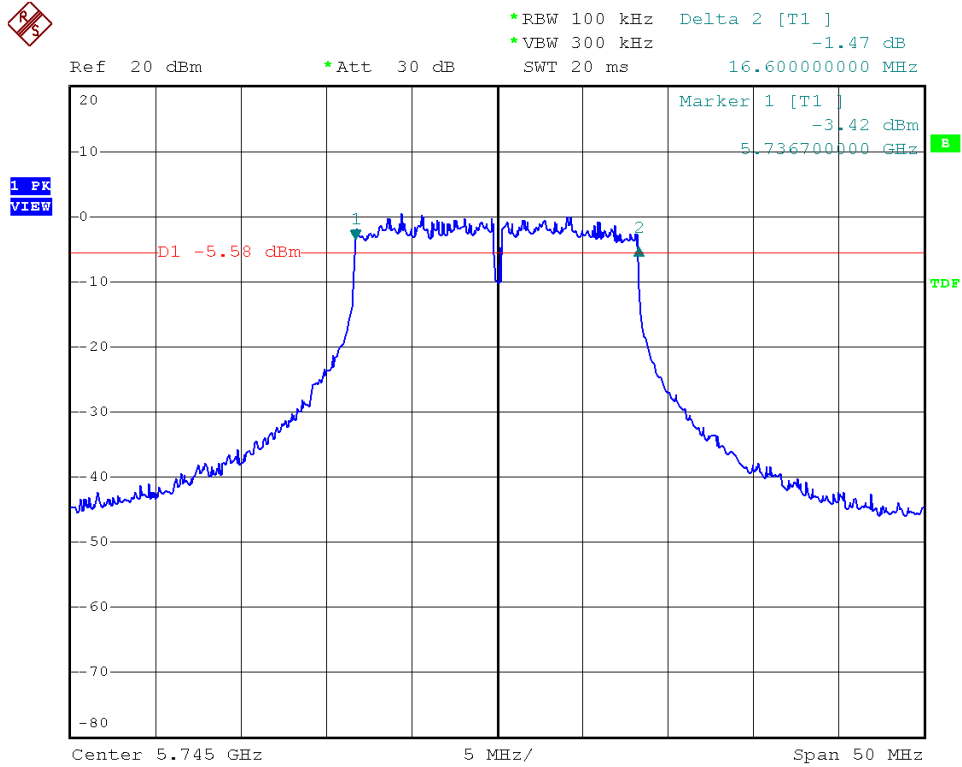
Modulation Standard: 802.11n HT40 (270Mbps), ANT R  
Channel: 09



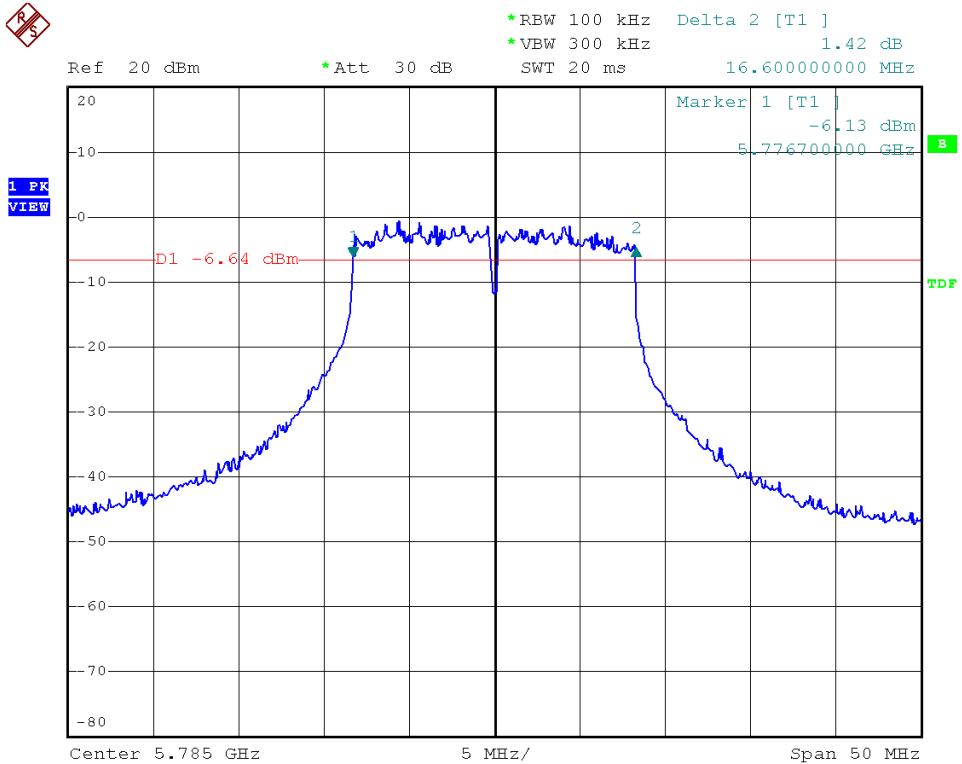




Modulation Standard: 802.11a (54Mbps), ANT R  
Channel: 149

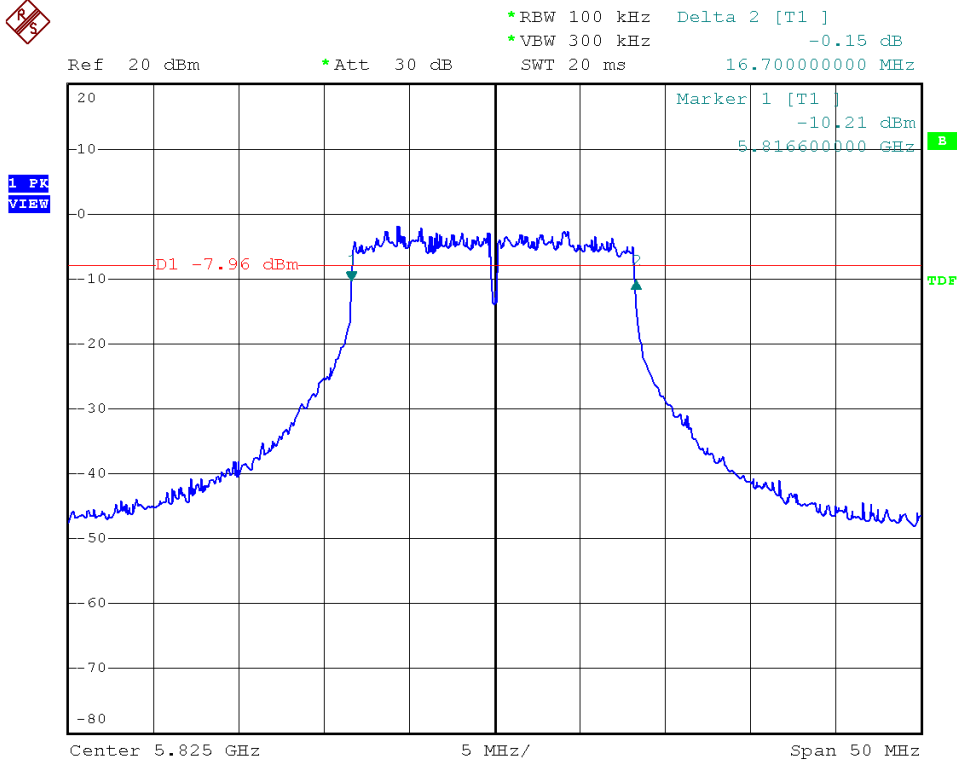


Modulation Standard: 802.11a (54Mbps), ANT R  
Channel: 157

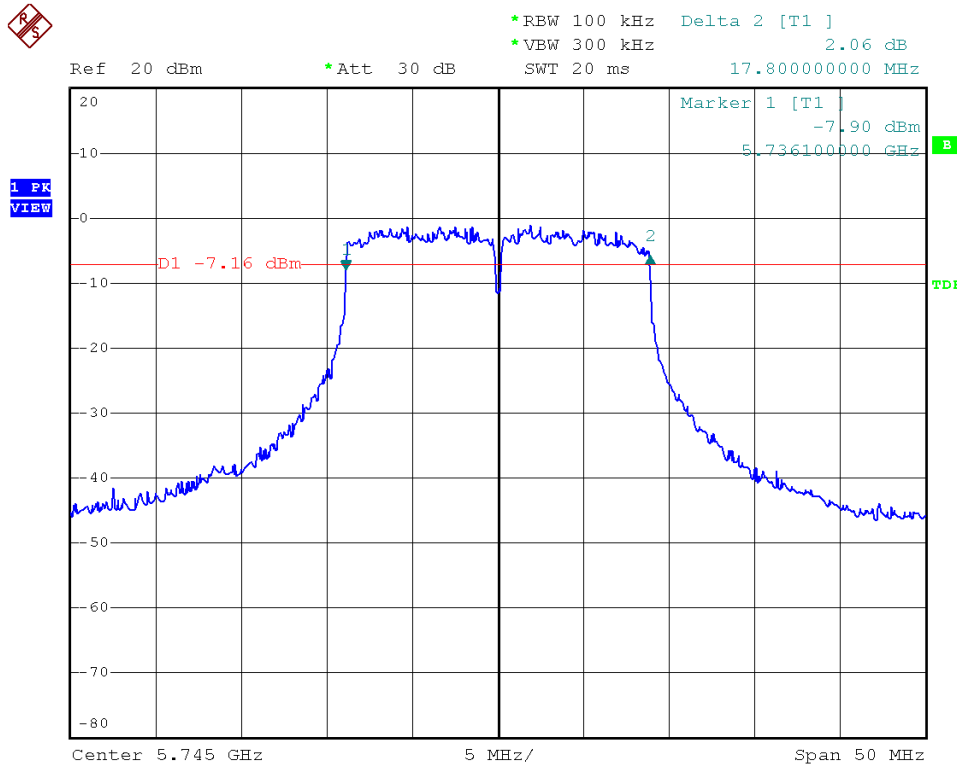




Modulation Standard: 802.11a (54Mbps), ANT R  
Channel: 165

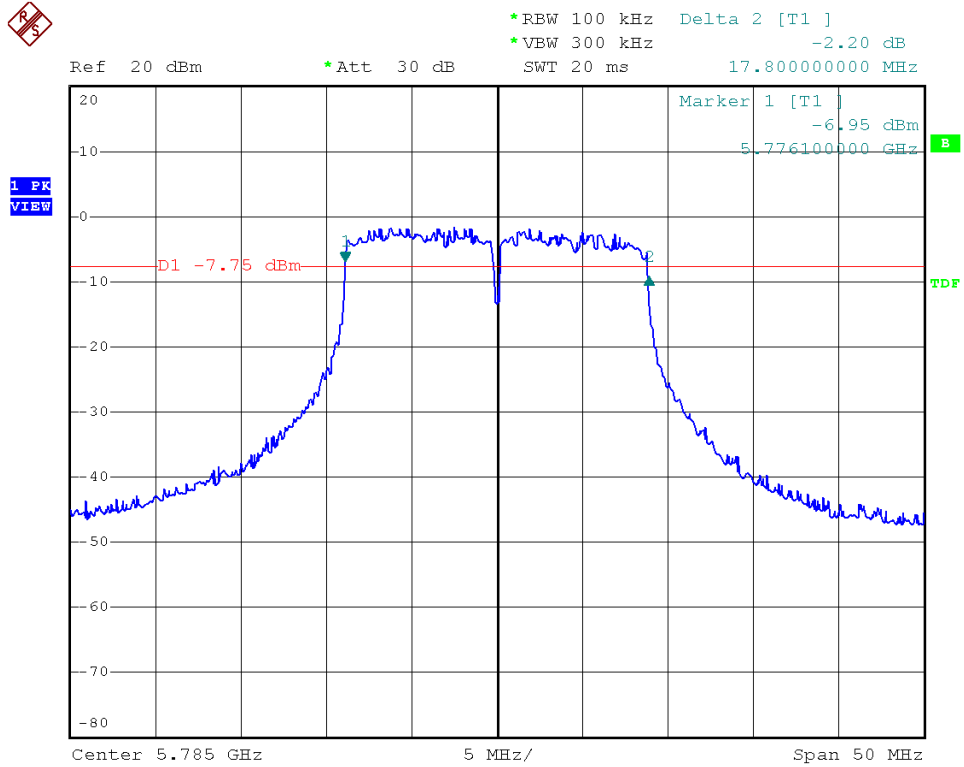


Modulation Standard: 802.11an HT20 (130Mbps), ANT R  
Channel: 149

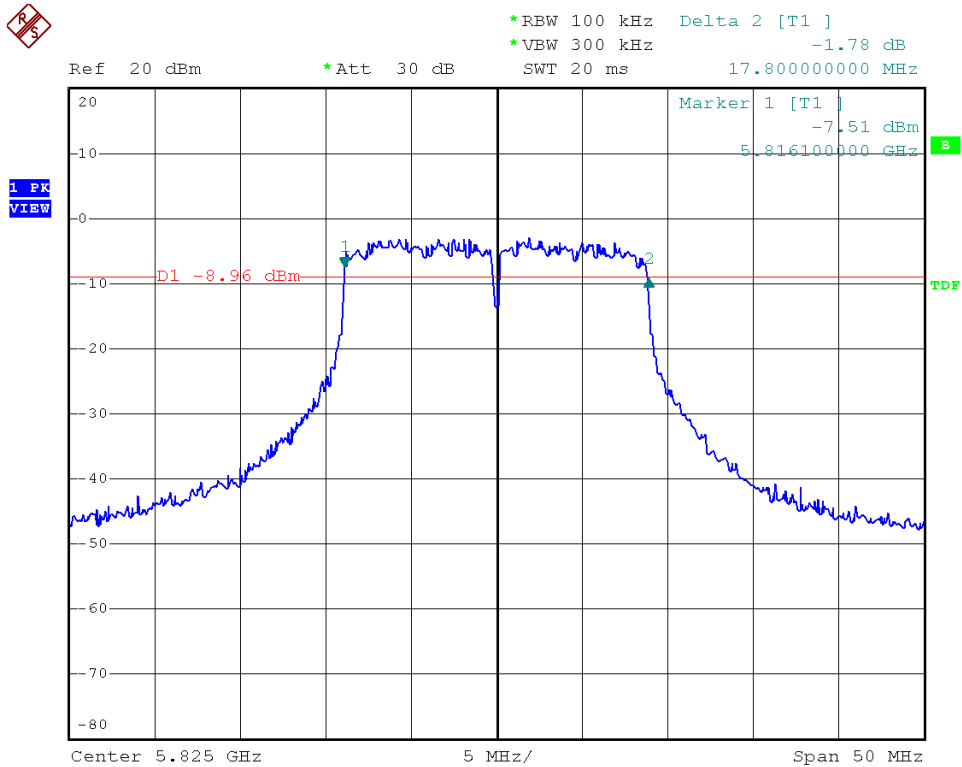




Modulation Standard: 802.11an HT20 (130Mbps), ANT R  
Channel: 157

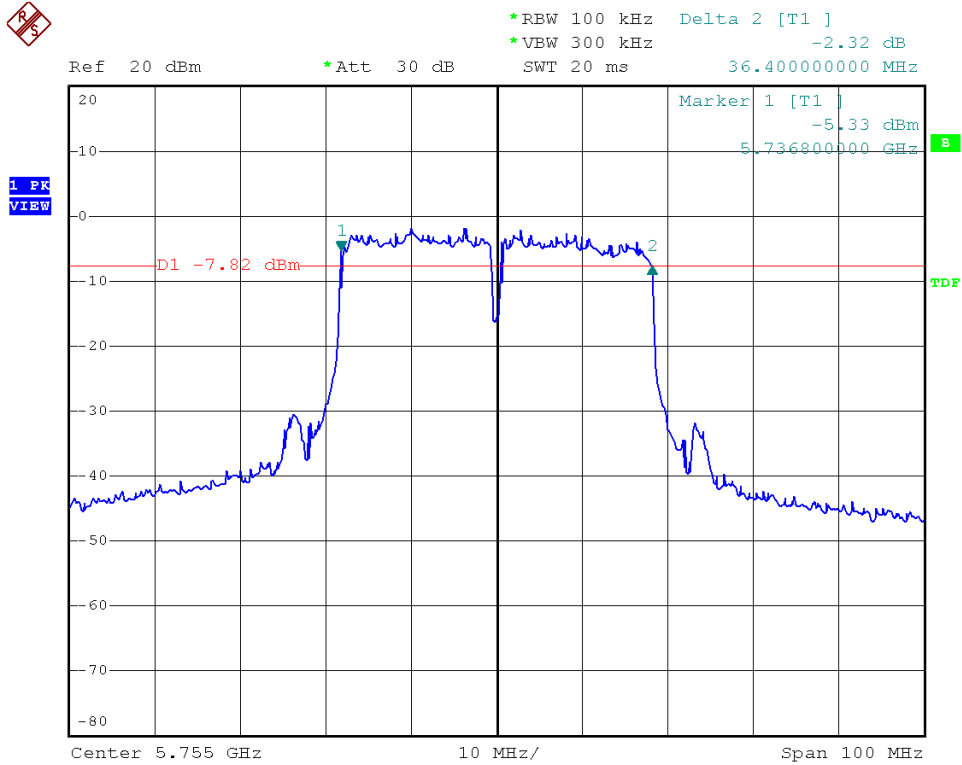


Modulation Standard: 802.11an HT20 (130Mbps), ANT R  
Channel: 165

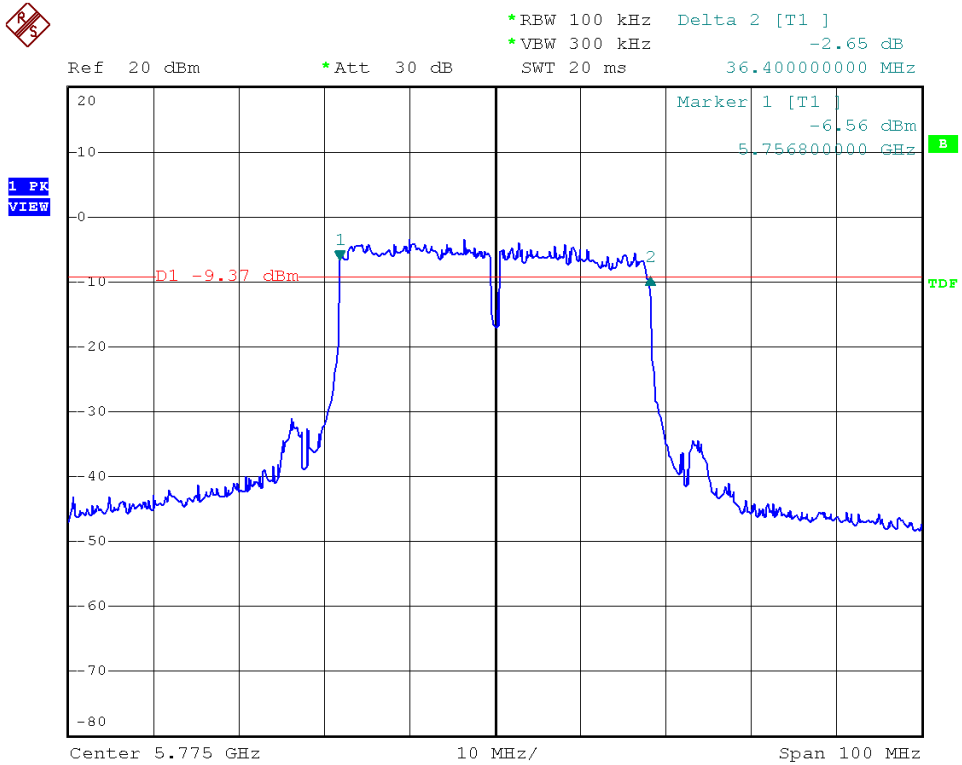




Modulation Standard: 802.11an HT40 (270Mbps), ANT R  
Channel: 151

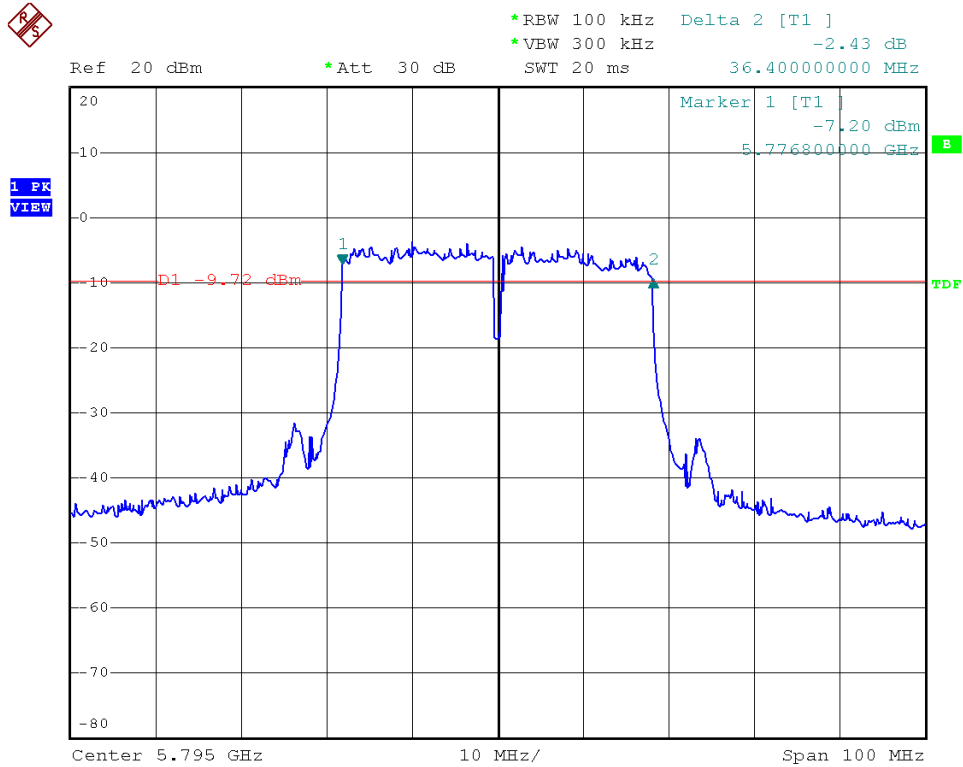


Modulation Standard: 802.11an HT40 (270Mbps), ANT R  
Channel: 155

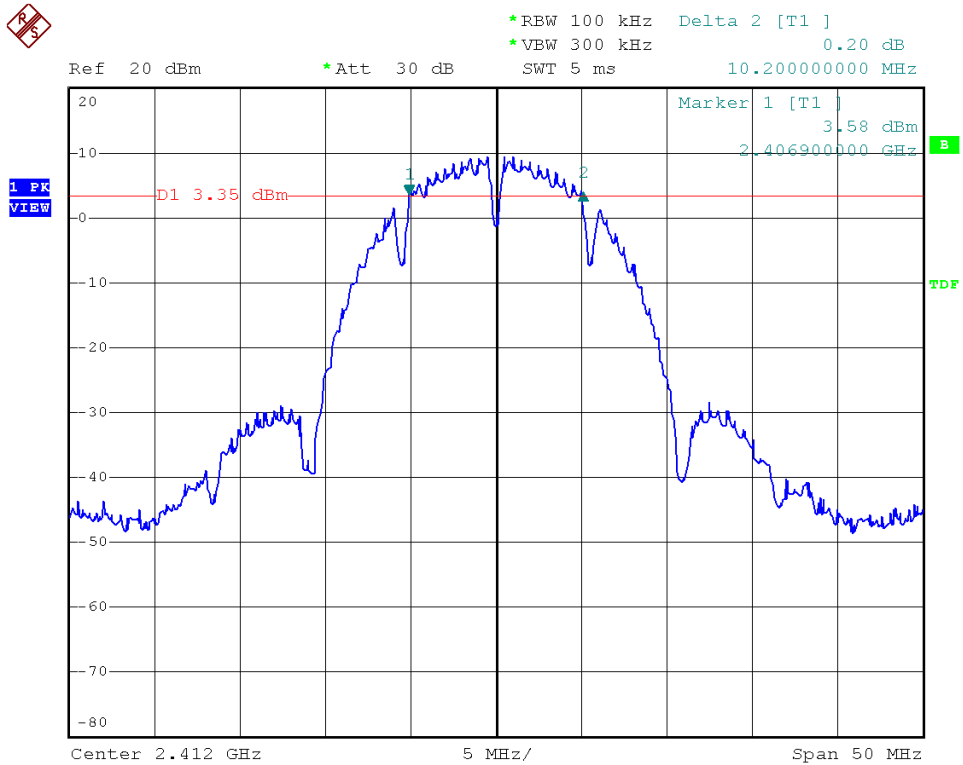




Modulation Standard: 802.11an HT40 (270Mbps), ANT R  
Channel: 159

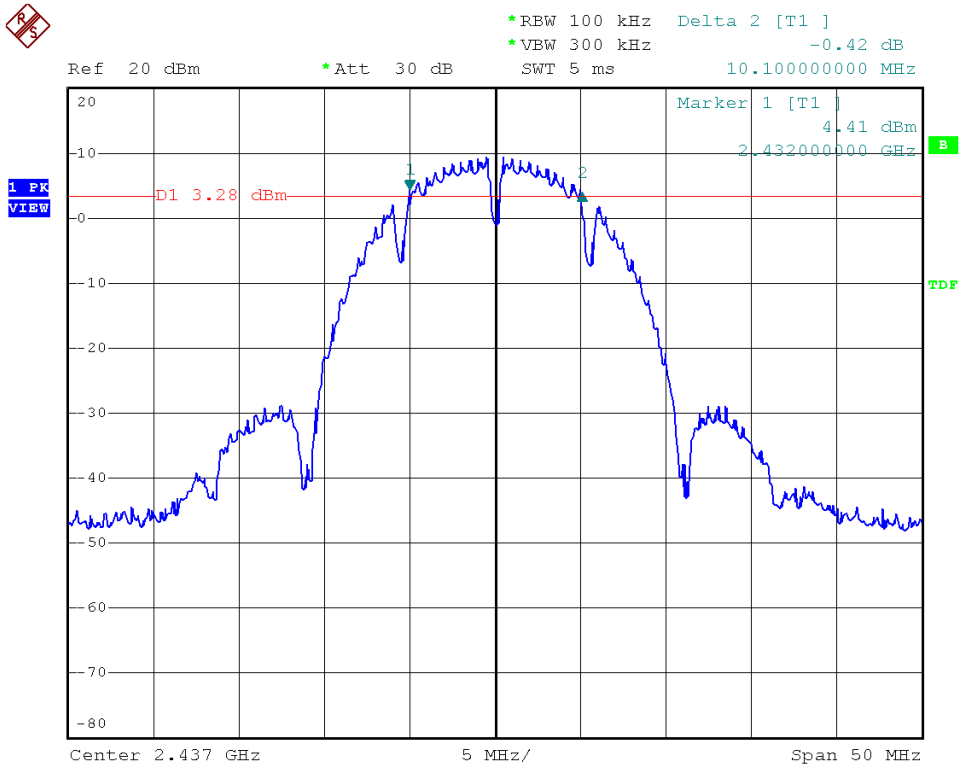


Modulation Standard: 802.11b (11Mbps), ANT L  
Channel: 01

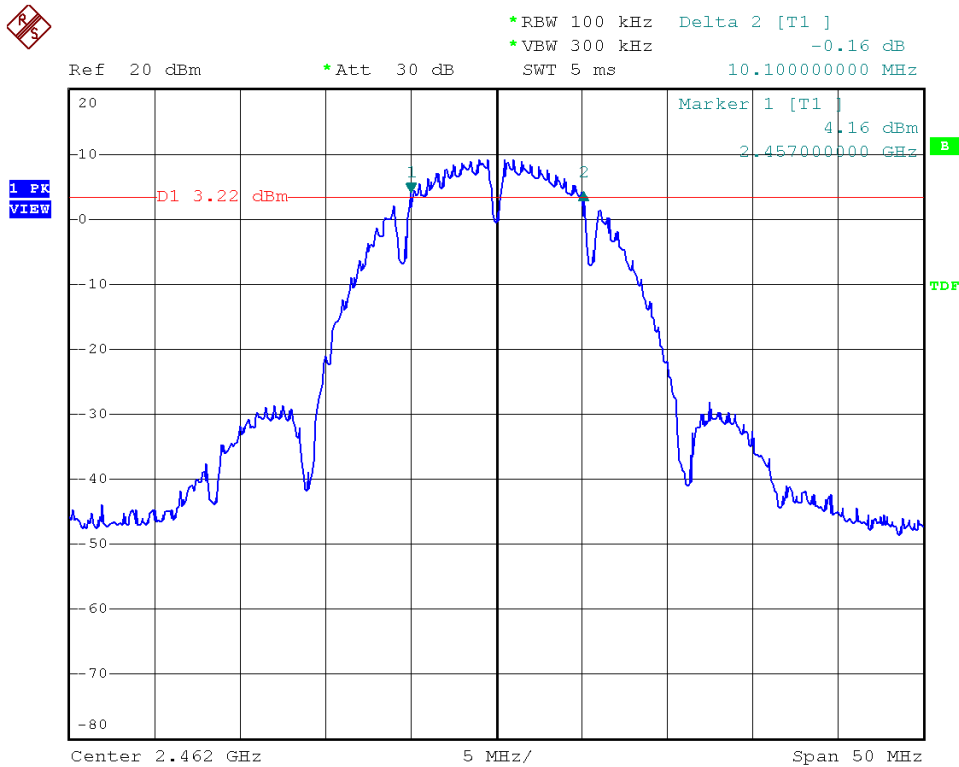




Modulation Standard: 802.11b (11Mbps), ANT L  
Channel: 06

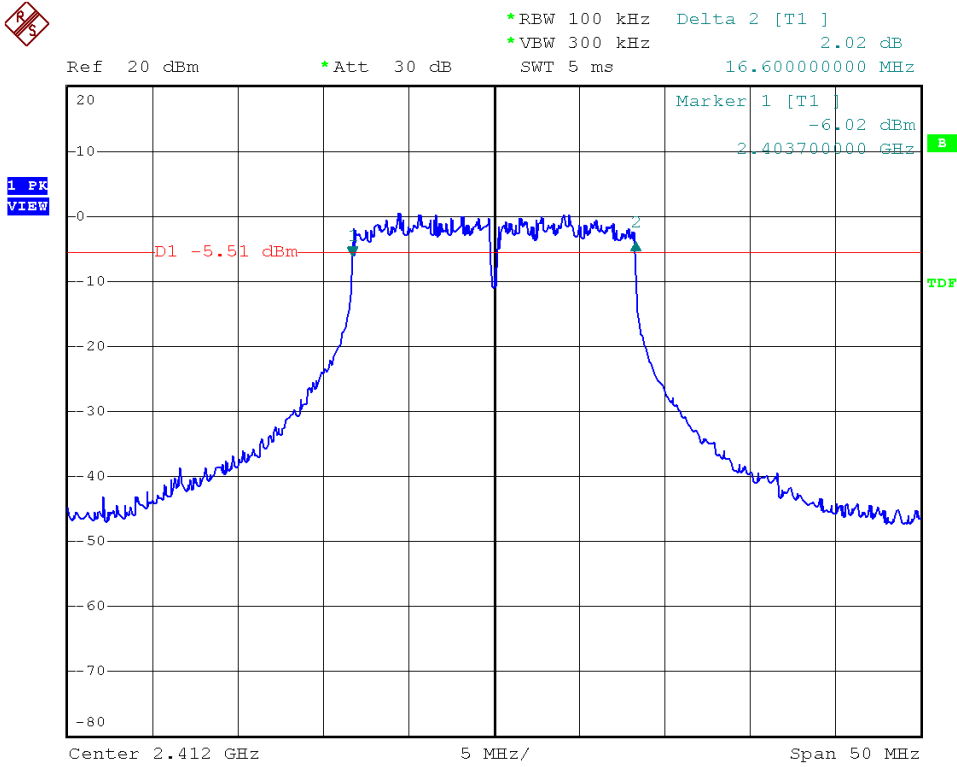


Modulation Standard: 802.11b (11Mbps), ANT L  
Channel: 11

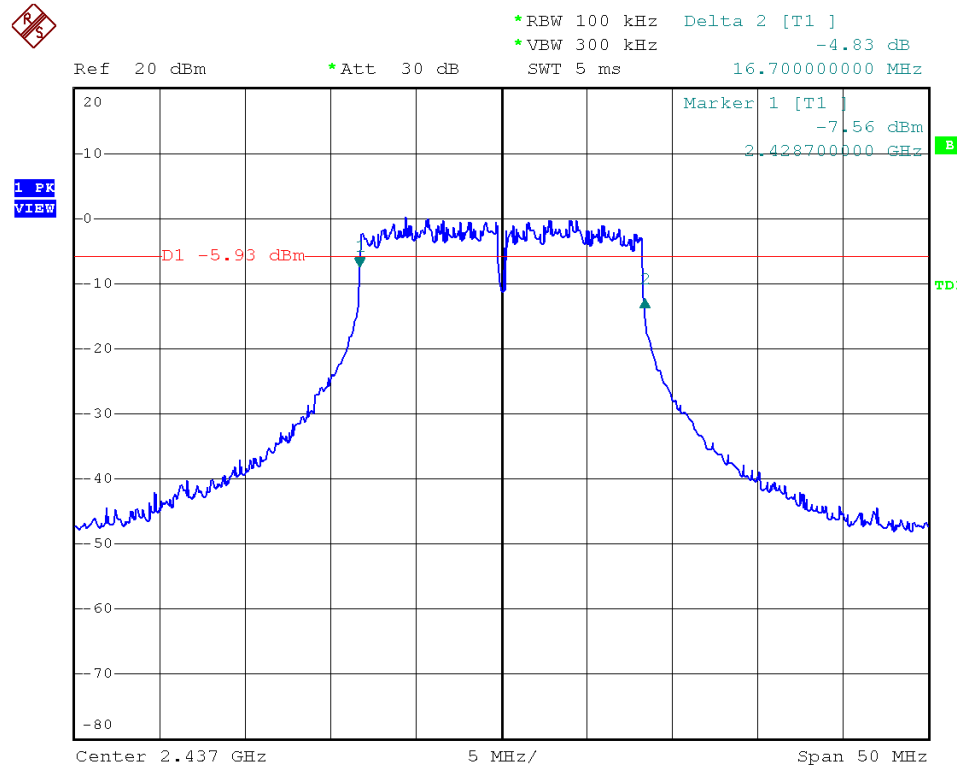




Modulation Standard: 802.11g (54Mbps), ANT L  
Channel: 01

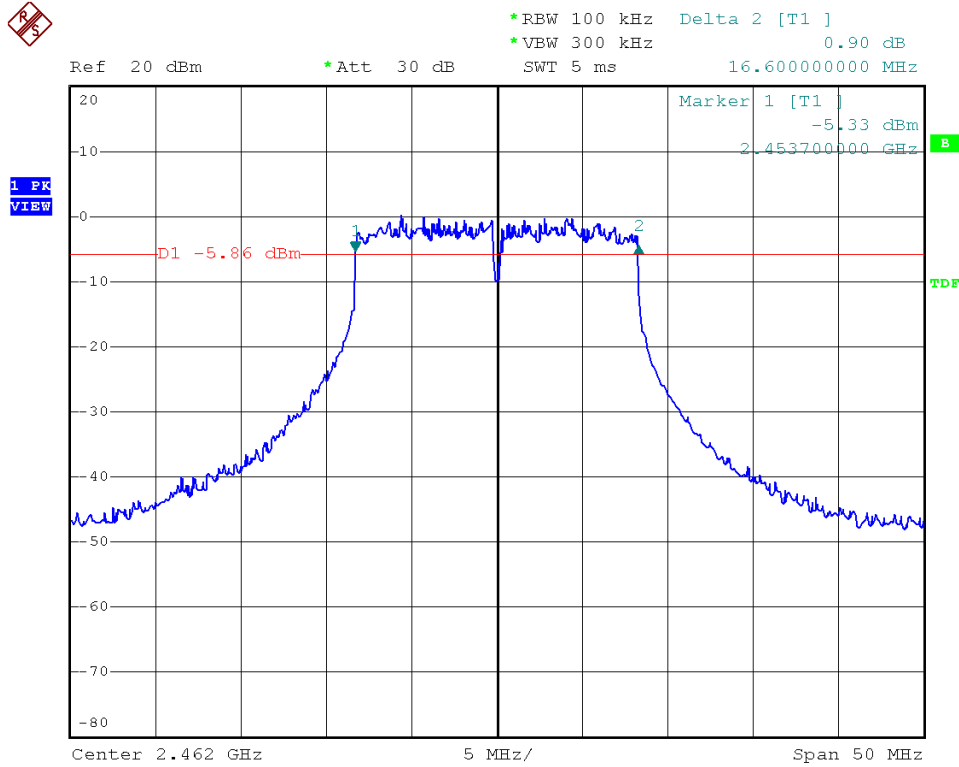


Modulation Standard: 802.11g (54Mbps), ANT L  
Channel: 06

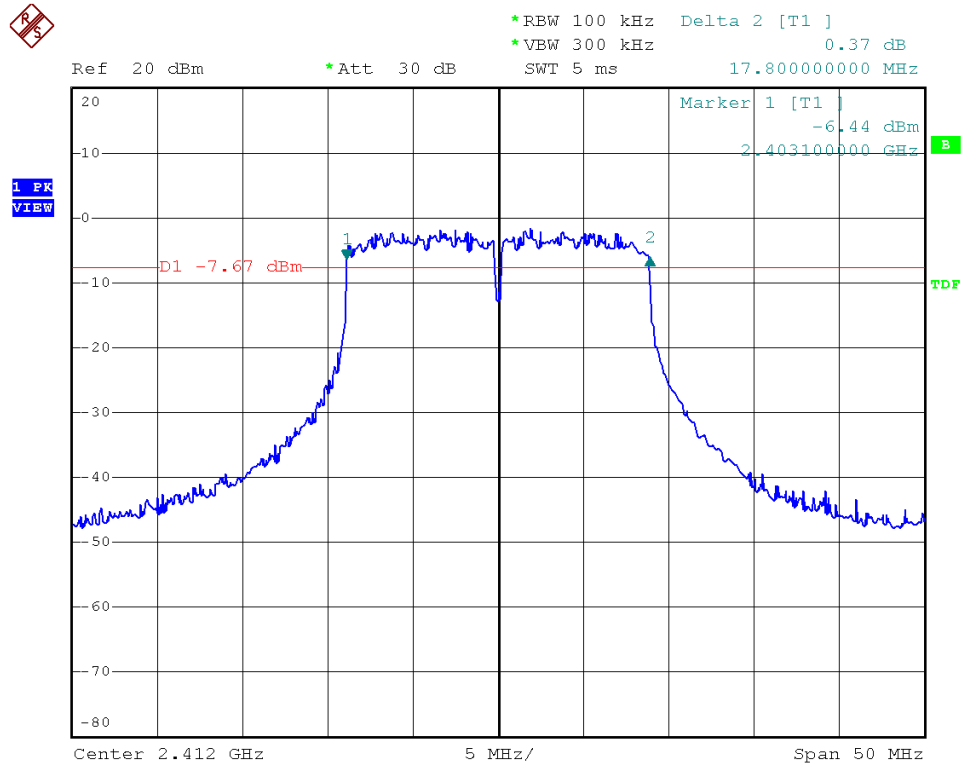




Modulation Standard: 802.11g (54Mbps), ANT L  
Channel: 11



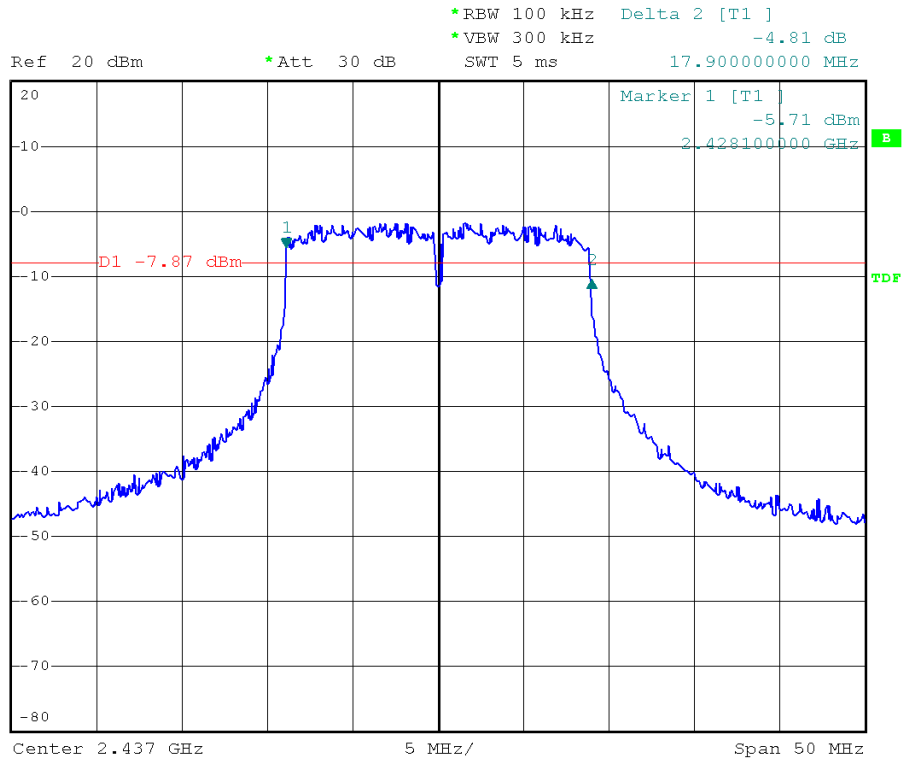
Modulation Standard: 802.11n HT20 (130Mbps), ANT L  
Channel: 01



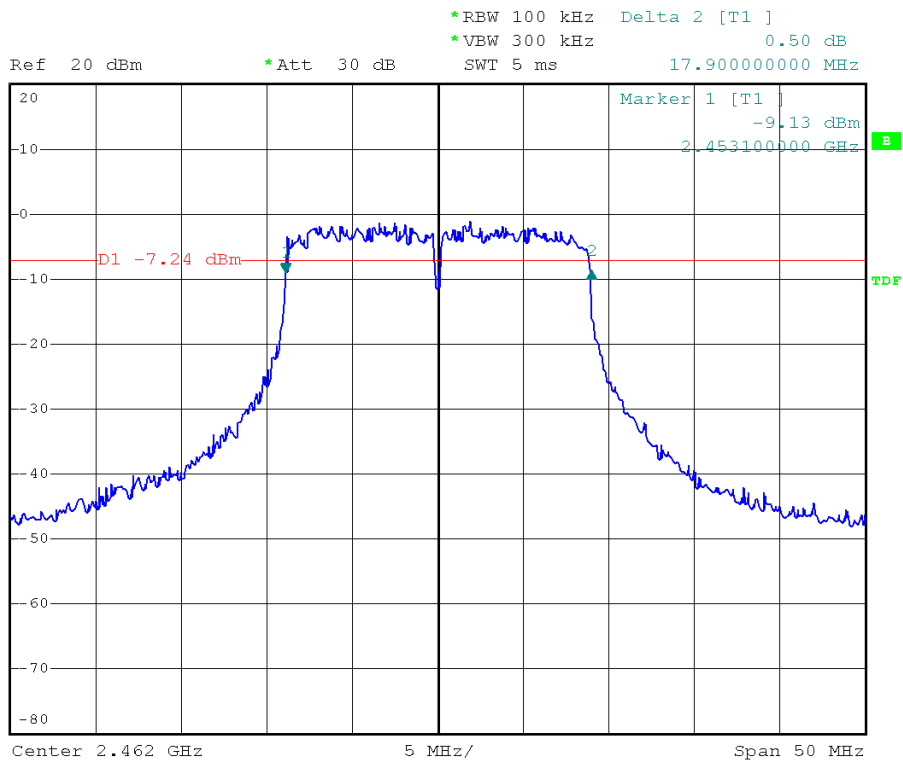




Modulation Standard: 802.11n HT20 (130Mbps), ANT L  
Channel: 06

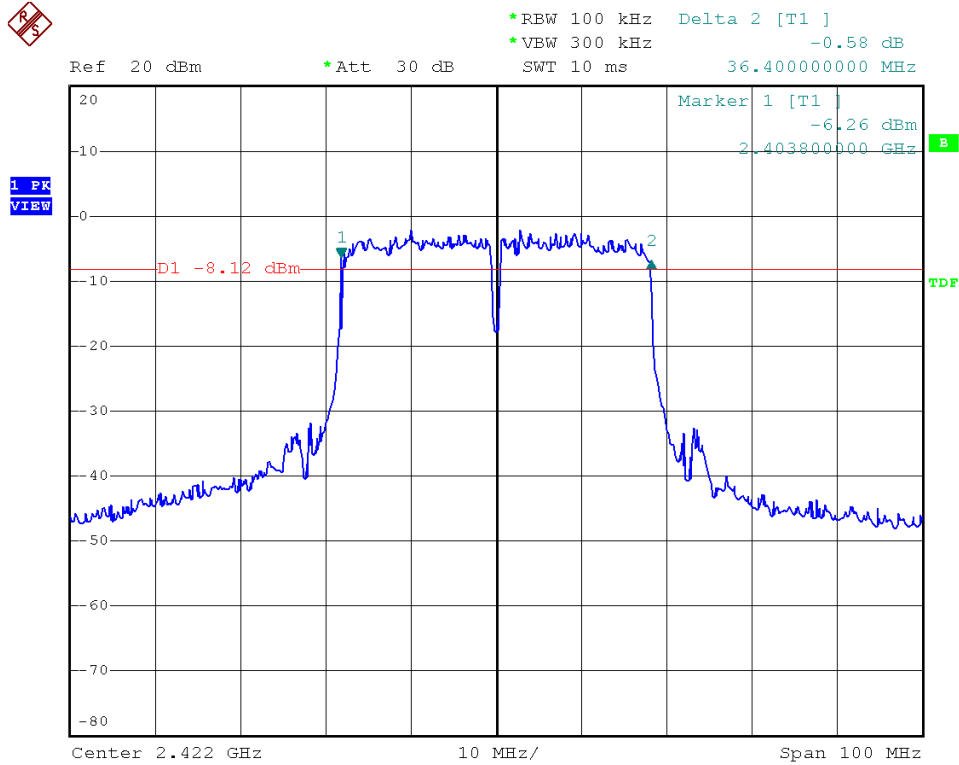


Modulation Standard: 802.11n HT20 (130Mbps), ANT L  
Channel: 11

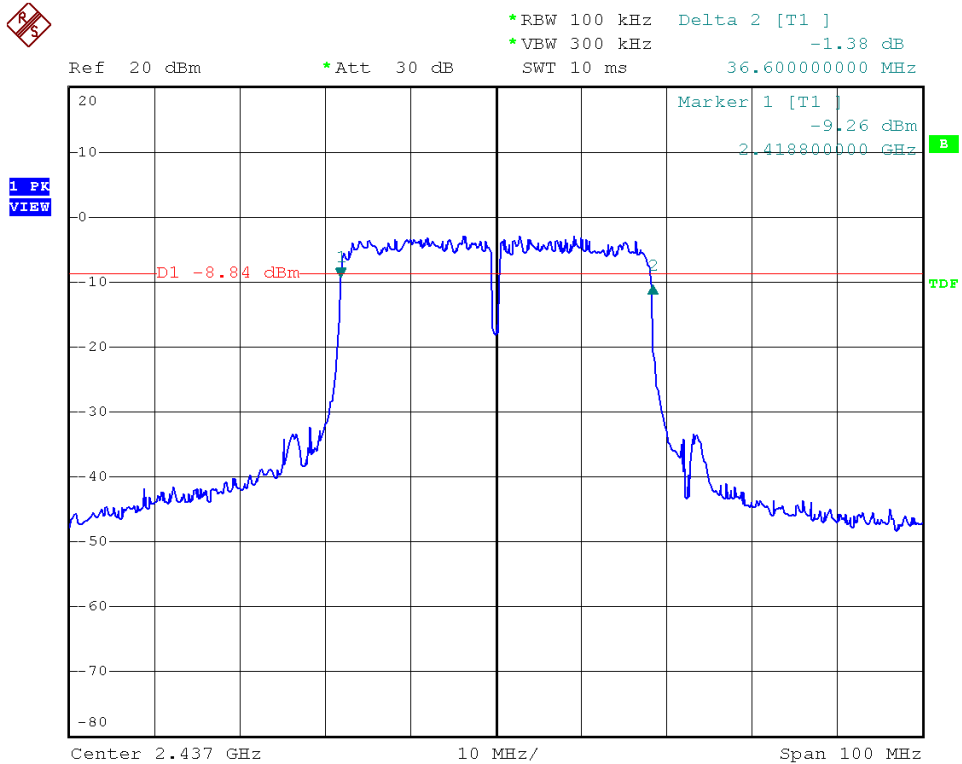




Modulation Standard: 802.11n HT40 (270Mbps), ANT L  
Channel: 03

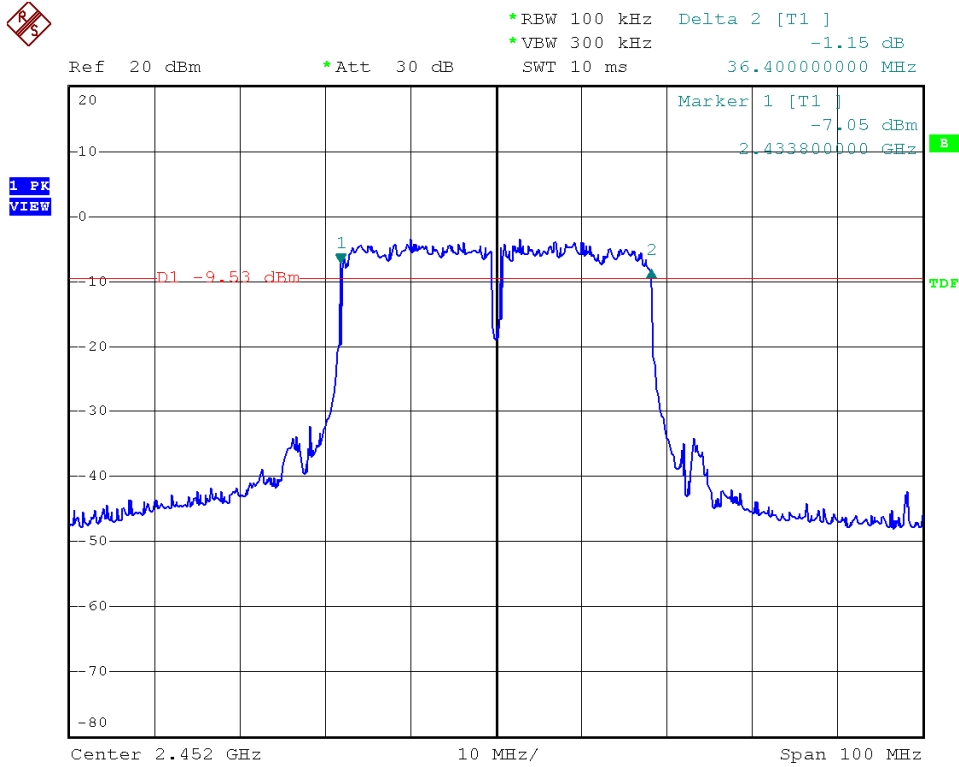


Modulation Standard: 802.11n HT40 (270Mbps), ANT L  
Channel: 06

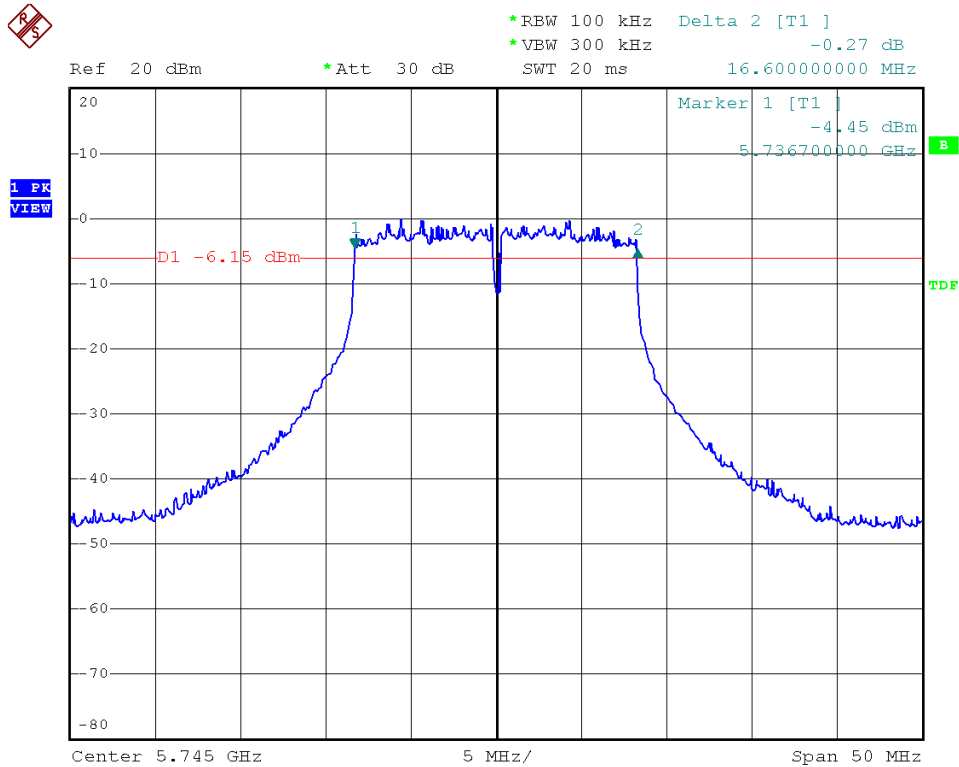




Modulation Standard: 802.11n HT40 (270Mbps), ANT L  
Channel: 09

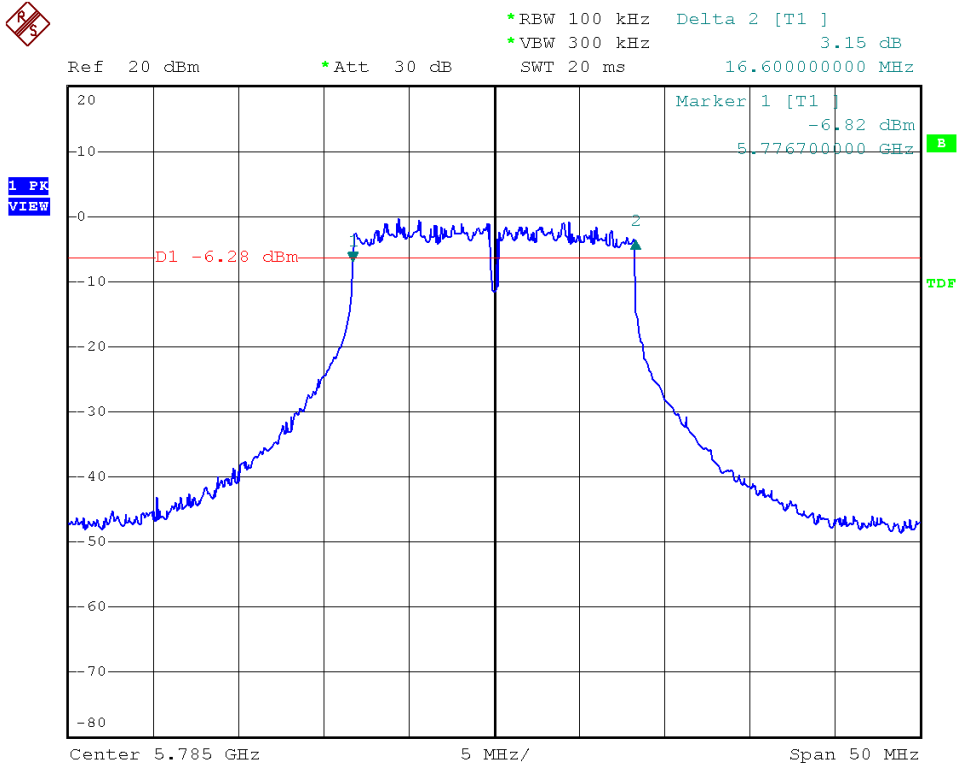


Modulation Standard: 802.11a (54Mbps), ANT L  
Channel: 149

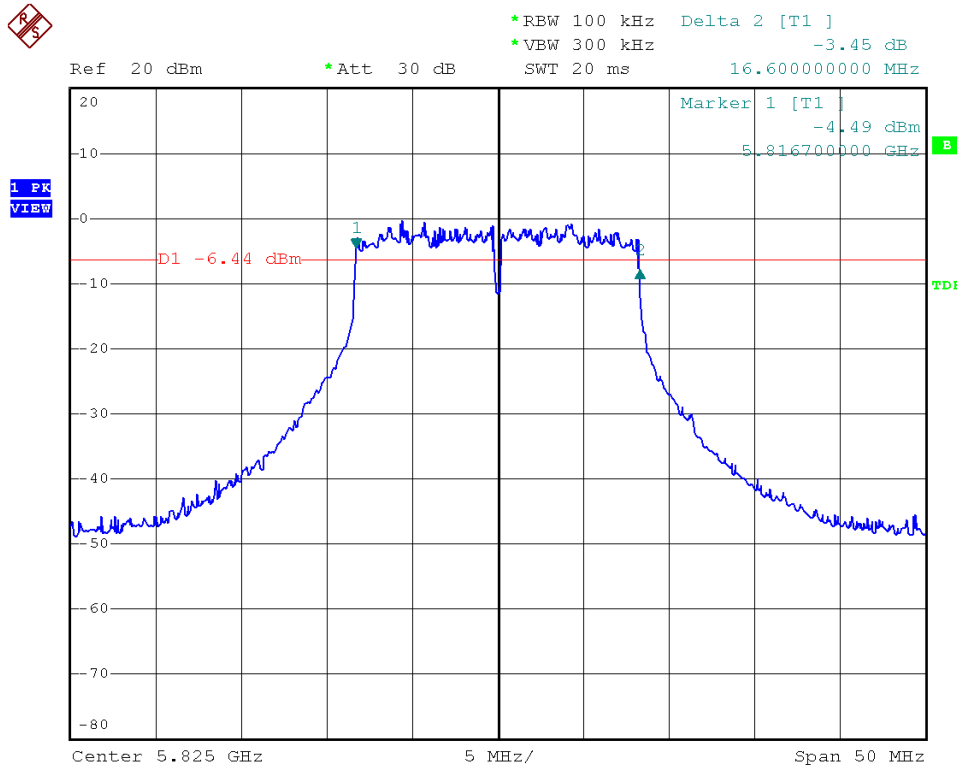




Modulation Standard: 802.11a (54Mbps), ANT L  
Channel: 157

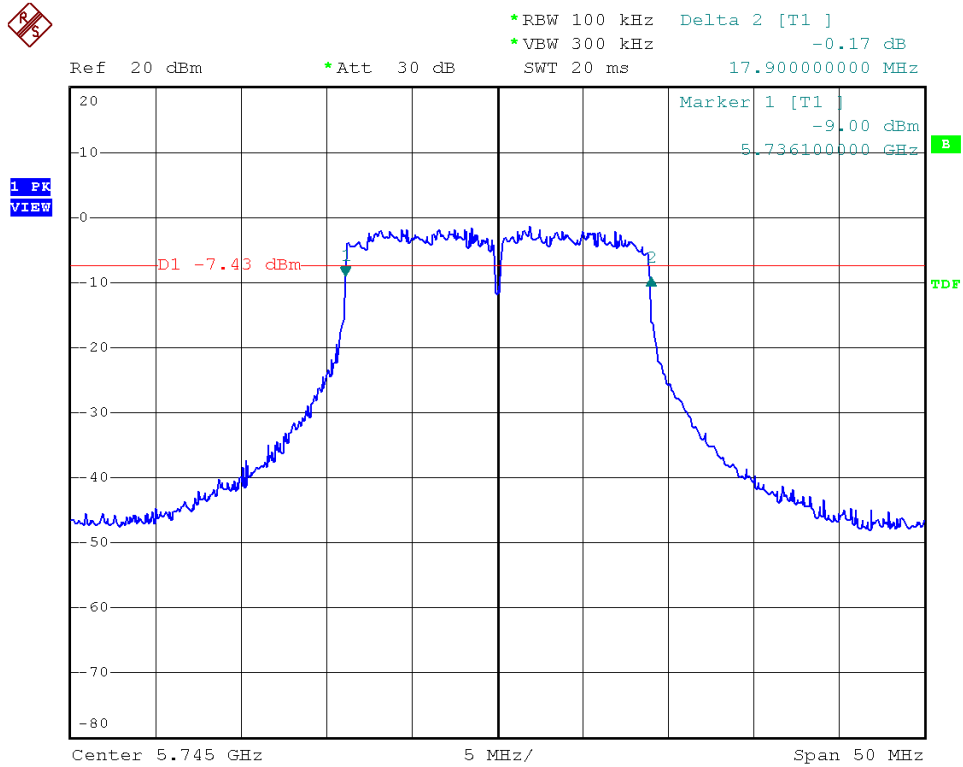


Modulation Standard: 802.11a (54Mbps), ANT L  
Channel: 165

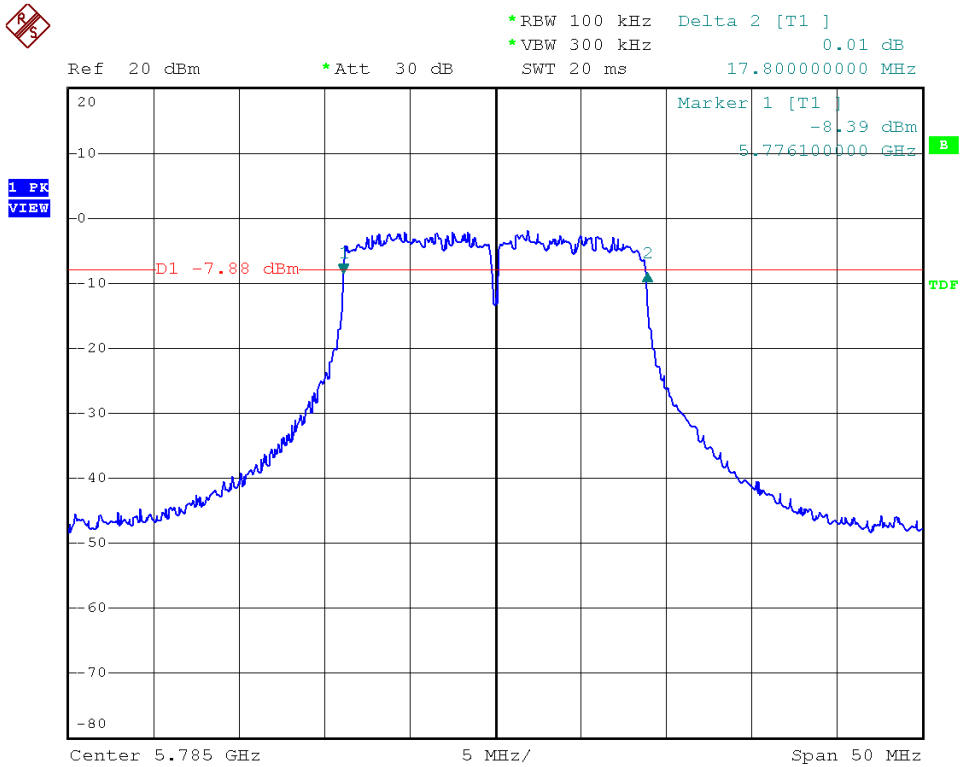




Modulation Standard: 802.11an HT20 (130Mbps), ANT L  
Channel: 149

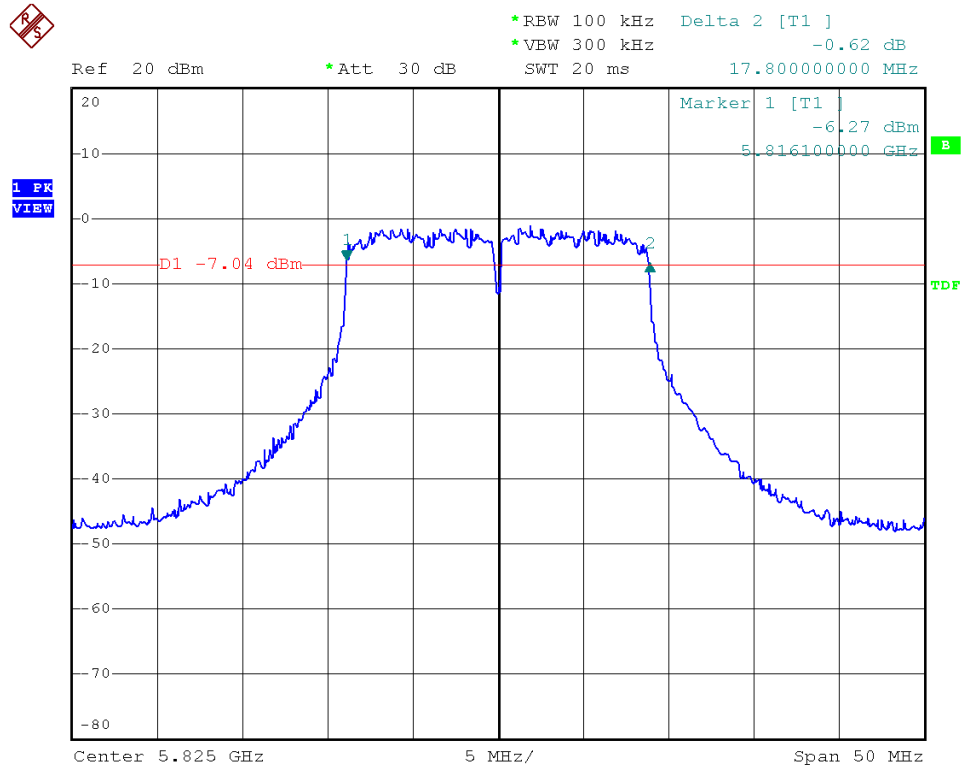


Modulation Standard: 802.11an HT20 (130Mbps), ANT L  
Channel: 157

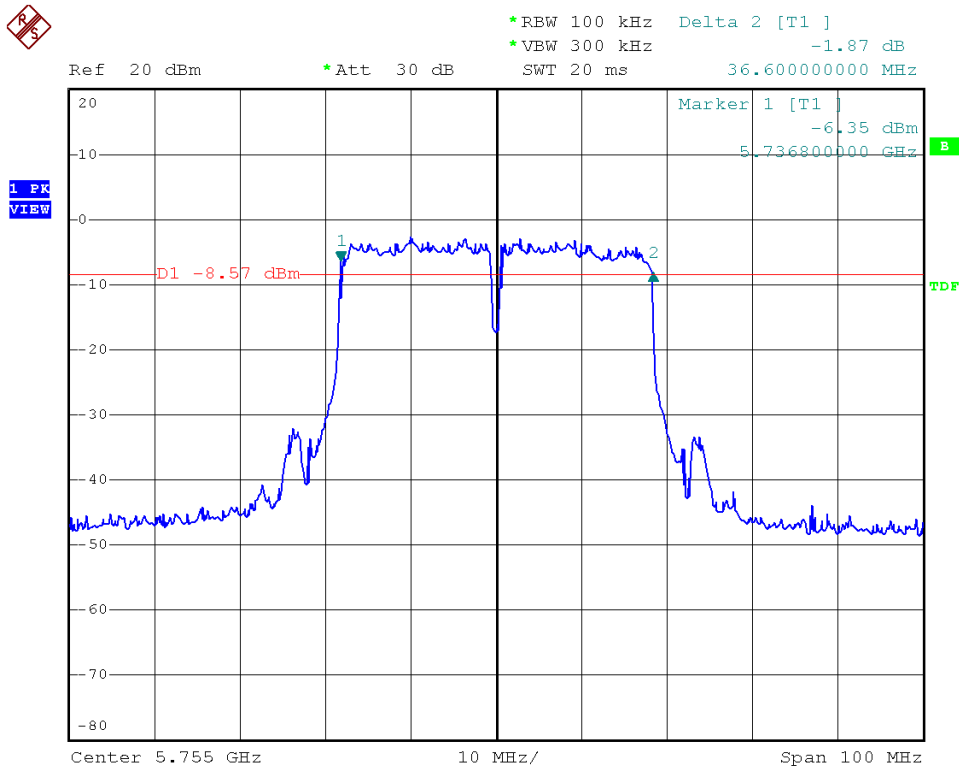




Modulation Standard: 802.11an HT20 (130Mbps), ANT L  
Channel: 165

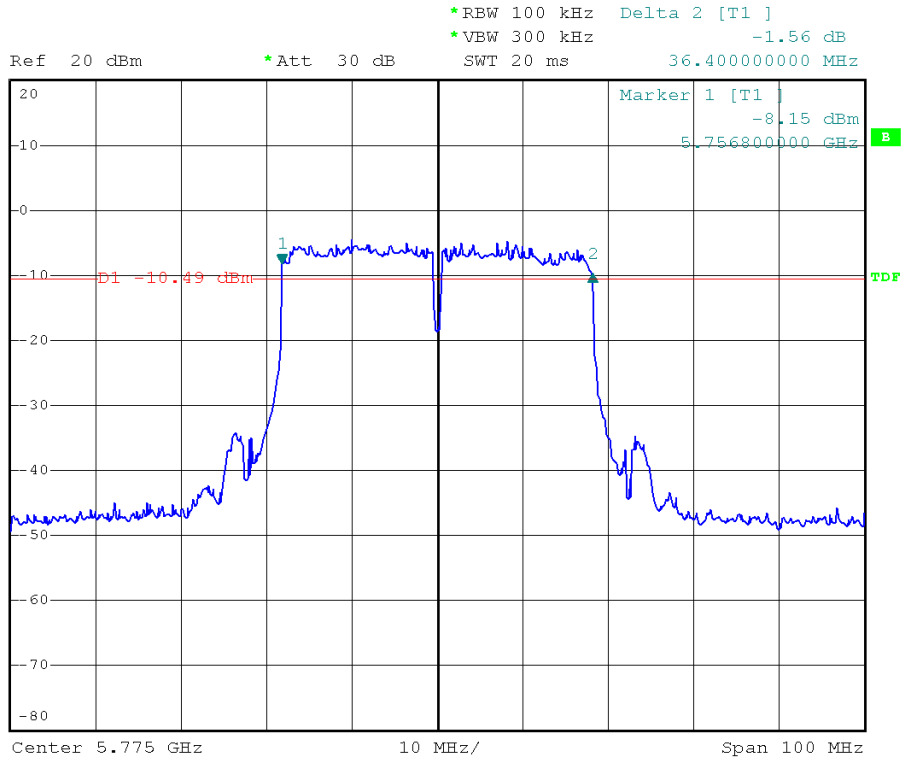


Modulation Standard: 802.11an HT40 (270Mbps), ANT L  
Channel: 151

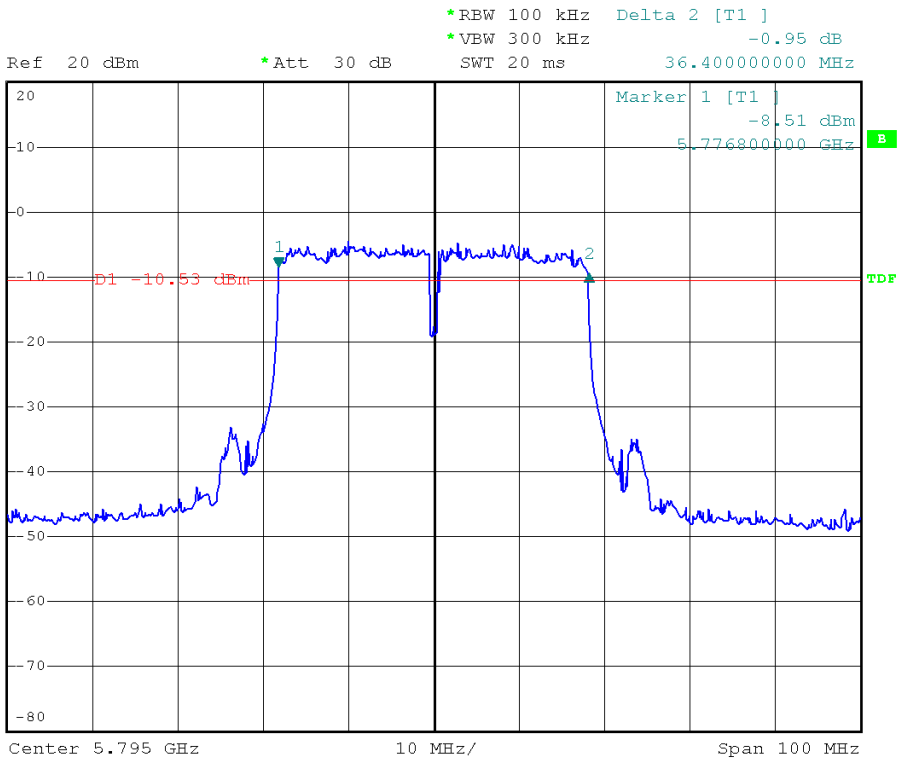




Modulation Standard: 802.11an HT40 (270Mbps), ANT L  
Channel: 155



Modulation Standard: 802.11an HT40 (270Mbps), ANT L  
Channel: 159





## 7. Maximum Peak and Average Output Power

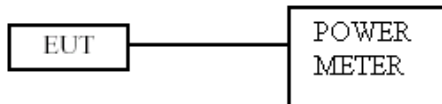
### 7.1 Test Limit

The Maximum Peak Output Power Measurement is 30dBm (2.4GHz) and 28.99dBm (5GHz).

### 7.2 Test Procedures

The antenna port (RF output) of the EUT was connected to the input (RF input) of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

### 7.3 Test Setup Layout



### 7.4 Measurement Equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	R&S	FSP40	100047	2013/03/15	2014/03/14
SERIES POWER METER	ANRITSU	ML2495A	1224005	2013/03/21	2014/03/20
POWER SENSOR	ANRITSU	MA2411B	1207295	2013/03/21	2014/03/20





### 7.5 Test Result and Data

Test Date: Aug. 27, 2013

Temperature: 25°C

Atmospheric pressure: 1019 hPa

Humidity: 42%

Modulation Standard	Channel	Frequency (MHz)	Peak Power Output (dBm)			Peak Power Output(mW)
			ANT R	ANT L	ANT R+L	ANT R+L
802.11b (11Mbps)	01	2412	24.22	24.11	27.18	521.87
	06	2437	24.27	24.22	27.26	531.54
	11	2462	24.32	24.14	27.24	529.81
802.11g (54Mbps)	01	2412	26.24	26.23	29.25	840.49
	06	2437	26.17	26.03	29.11	814.87
	11	2462	26.39	26.11	29.26	843.83

Modulation Standard	Channel	Frequency (MHz)	Peak Power Output (dBm)			Peak Power Output (mW)
			ANT R	ANT L	ANT R+L	ANT R+L
802.11n HT20 (130Mbps)	01	2412	24.38	24.21	27.31	537.8
	06	2437	24.08	24.26	27.18	522.5
	11	2462	24.07	24.10	27.10	512.3
802.11n HT40 (270Mbps)	03	2422	24.43	24.03	27.24	530.3
	06	2437	24.23	24.43	27.34	542.2
	09	2452	24.29	24.14	27.23	528.0



Test Date: Aug. 28, 2013

Temperature: 26°C

Atmospheric pressure: 1019 hPa

Humidity: 45%

Modulation Standard	Channel	Frequency (MHz)	Peak Power Output (dBm)			Peak Power Output (mW)
			ANT R	ANT L	ANT R+L	ANT R+L
802.11a (54Mbps)	149	5745	23.37	23.05	26.22	419.11
	157	5785	23.16	23.36	26.27	423.78
	165	5825	23.09	23.43	26.27	424.00

Modulation Standard	Channel	Frequency (MHz)	Peak Power Output (dBm)			Peak Power Output (mW)
			ANT R	ANT L	ANT R+L	ANT R+L
802.11an HT20 (130Mbps)	149	5745	23.12	23.33	26.24	420.39
	157	5785	23.29	23.03	26.17	414.21
	165	5825	23.11	23.42	26.28	424.43
802.11an HT40 (270Mbps)	151	5755	23.35	23.27	26.32	428.60
	155	5775	23.15	23.35	26.26	422.81
	159	5795	23.32	23.27	26.31	427.11



Test Date: Aug. 27, 2013

Temperature: 25°C

Atmospheric pressure: 1019 hPa

Humidity: 42%

Modulation Standard	Channel	Frequency (MHz)	Average Power Output (dBm)			Average Power Output (mW)
			ANT R	ANT L	ANT R+L	ANT R+L
802.11b (11Mbps)	01	2412	21.86	21.85	24.87	306.57
	06	2437	21.93	22.06	25.01	316.65
	11	2462	22.03	21.99	25.02	317.71
802.11g (54Mbps)	01	2412	15.99	16.11	19.06	80.55
	06	2437	16.04	15.88	18.97	78.90
	11	2462	16.33	15.95	19.15	82.31

Modulation Standard	Channel	Frequency (MHz)	Average Power Output (dBm)			Average Power Output (mW)
			ANT R	ANT L	ANT R+L	ANT R+L
802.11n HT20 (130Mbps)	01	2412	14.33	14.10	17.23	52.8
	06	2437	14.17	14.23	17.21	52.6
	11	2462	14.24	14.16	17.21	52.6
802.11n HT40 (270Mbps)	03	2422	13.88	13.39	16.65	46.3
	06	2437	13.75	13.92	16.85	48.4
	09	2452	13.83	13.54	16.70	46.8



Test Date: Aug. 27, 2013

Temperature: 25°C

Atmospheric pressure: 1019 hPa

Humidity: 42%

Modulation Standard	Channel	Frequency (MHz)	Average Power Output (dBm)			Average Power Output (mW)
			ANT R	ANT L	ANT R+L	ANT R+L
802.11a (54Mbps)	149	5745	13.12	12.92	16.03	40.10
	157	5785	12.97	13.21	16.10	40.76
	165	5825	12.84	13.27	16.07	40.46

Modulation Standard	Channel	Frequency (MHz)	Average Power Output (dBm)			Average Power Output (mW)
			ANT R	ANT L	ANT R+L	ANT R+L
802.11an HT20 (130Mbps)	149	5745	13.18	13.41	16.31	42.73
	157	5785	13.57	13.03	16.32	42.84
	165	5825	13.41	13.47	16.45	44.16
802.11an HT40 (270Mbps)	151	5755	12.69	12.72	15.72	37.28
	155	5775	12.49	12.65	15.58	36.15
	159	5795	12.88	12.57	15.74	37.48



## 8. Power Spectral Density

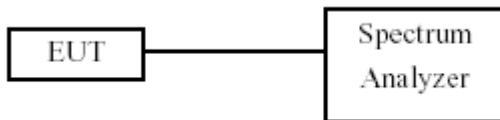
### 8.1 Test Limit

The Maximum of Power Spectral Density Measurement is 8dBm (2.4GHz), 6.99dBm (5GHz).

### 8.2 Test Procedures

- a. The transmitter output was connected to spectrum analyzer.
- b. The spectrum analyzer's resolution bandwidth were set at 3KHz RBW and 30KHz VBW as that of the fundamental frequency. Set the sweep time=auto couple.
- c. The power spectral density was measured and recorded.

### 8.3 Test Setup Layout



### 8.4 Measurement Equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	R&S	FSP40	100047	2013/03/15	2014/03/14



8.5 Test Result and Data

Test Date: Aug. 27, 2013

Temperature: 25°C

Atmospheric pressure: 1019 hPa

Humidity: 42%

Modulation Standard	Channel	Frequency (MHz)	Measured Power Density (dBm)		
			ANT R	ANT L	ANT R+L
802.11b (11Mbps)	01	2412	-9.44	-10.78	-7.05
	06	2437	-8.89	-10.51	-6.61
	11	2462	-9.21	-10.68	-6.87
802.11g (54Mbps)	01	2412	-13.85	-13.83	-10.83
	06	2437	-13.51	-14.27	-10.86
	11	2462	-13.24	-14.03	-10.61

Modulation Standard	Channel	Frequency (MHz)	Measured Power Density (dBm)		
			ANT R	ANT L	ANT R+L
802.11n HT20 (130Mbps)	01	2412	-13.29	-15.23	-11.14
	06	2437	-14.21	-15.08	-11.61
	11	2462	-14.04	-14.94	-11.46
802.11n HT40 (270Mbps)	03	2422	-16.97	-15.51	-13.17
	06	2437	-16.41	-16.07	-13.23
	09	2452	-16.57	-16.60	-13.57



Test Date: Aug. 28, 2013

Temperature: 26°C

Atmospheric pressure: 1019 hPa

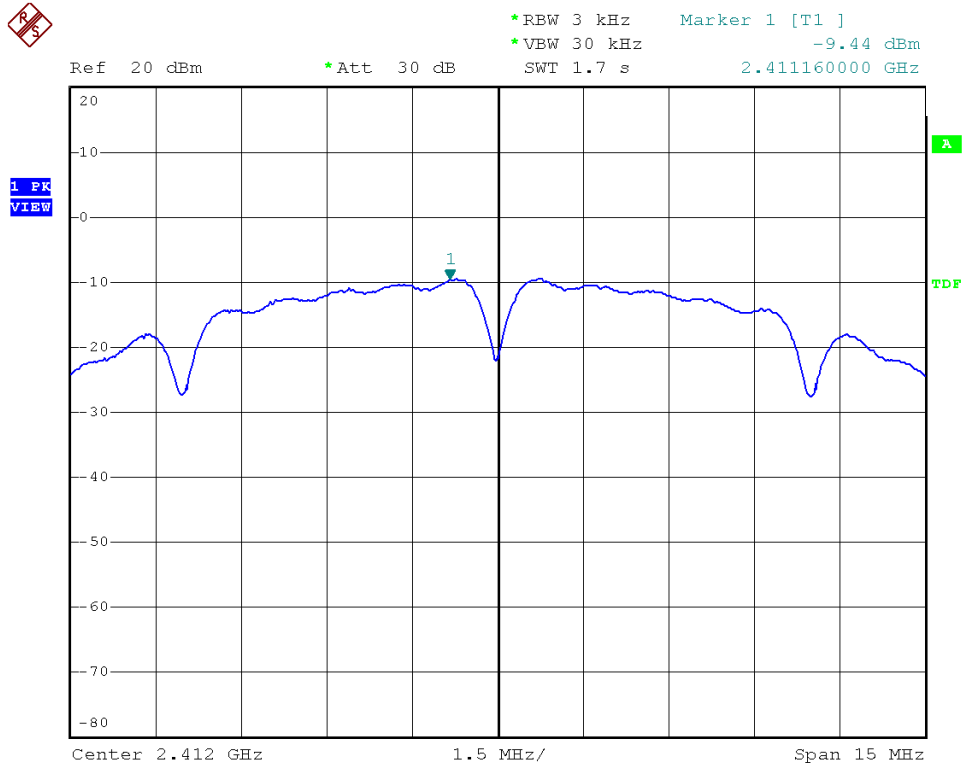
Humidity: 45%

Modulation Standard	Channel	Frequency (MHz)	Measured Power Density (dBm)		
			ANT R	ANT L	ANT R+L
802.11a (54Mbps)	149	5745	-12.96	-14.30	-10.57
	157	5785	-14.59	-14.51	-11.54
	165	5825	-15.94	-14.28	-12.02

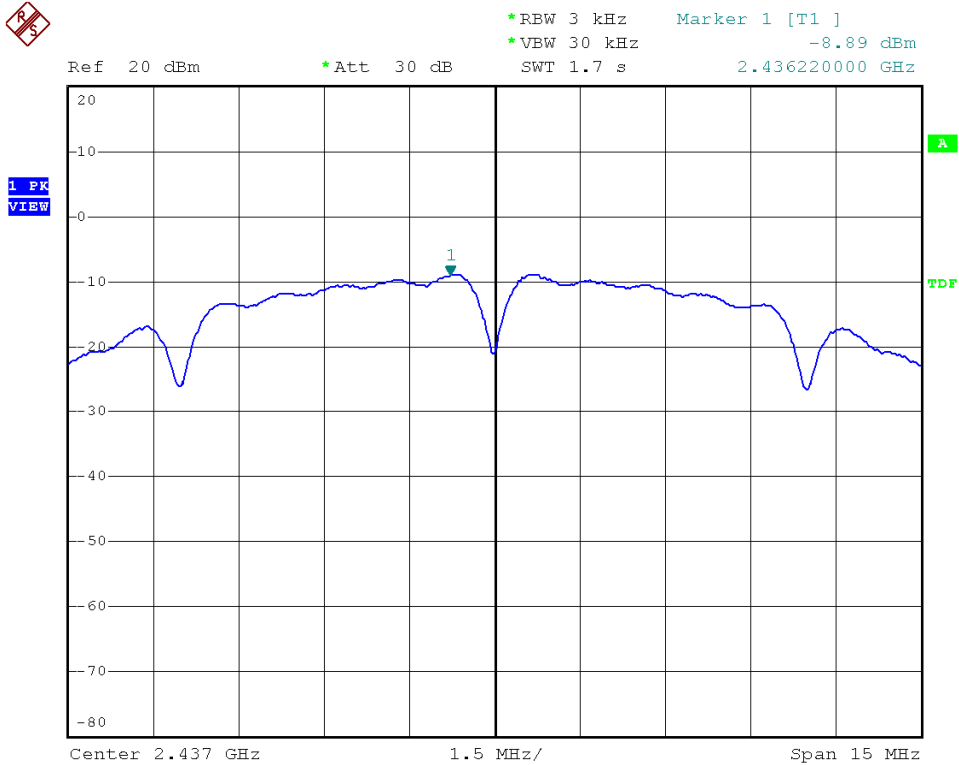
Modulation Standard	Channel	Frequency (MHz)	Measured Power Density (dBm)		
			ANT R	ANT L	ANT R+L
802.11an HT20 (130Mbps)	149	5745	-13.89	-14.69	-11.26
	157	5785	-14.91	-15.57	-12.22
	165	5825	-16.19	-14.26	-12.11
802.11an HT40 (270Mbps)	151	5755	-14.58	-15.30	-11.91
	155	5775	-15.66	-16.65	-13.12
	159	5795	-16.33	-17.07	-13.67



Modulation Standard: 802.11b (11Mbps), ANT R  
Channel: 01



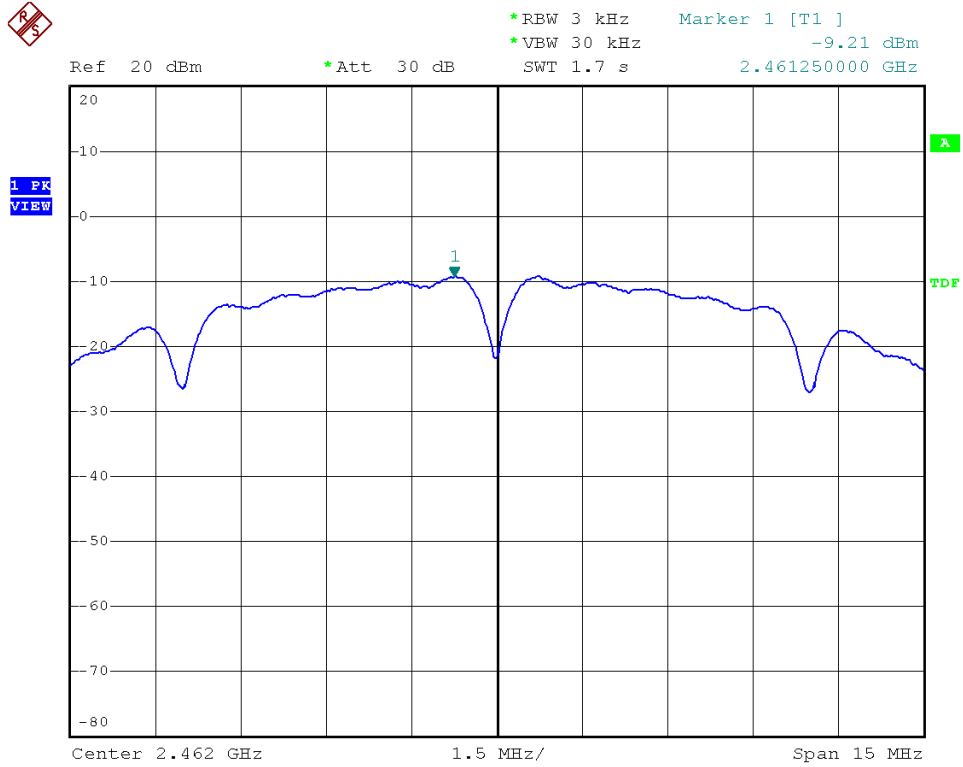
Modulation Standard: 802.11b (11Mbps), ANT R  
Channel: 06



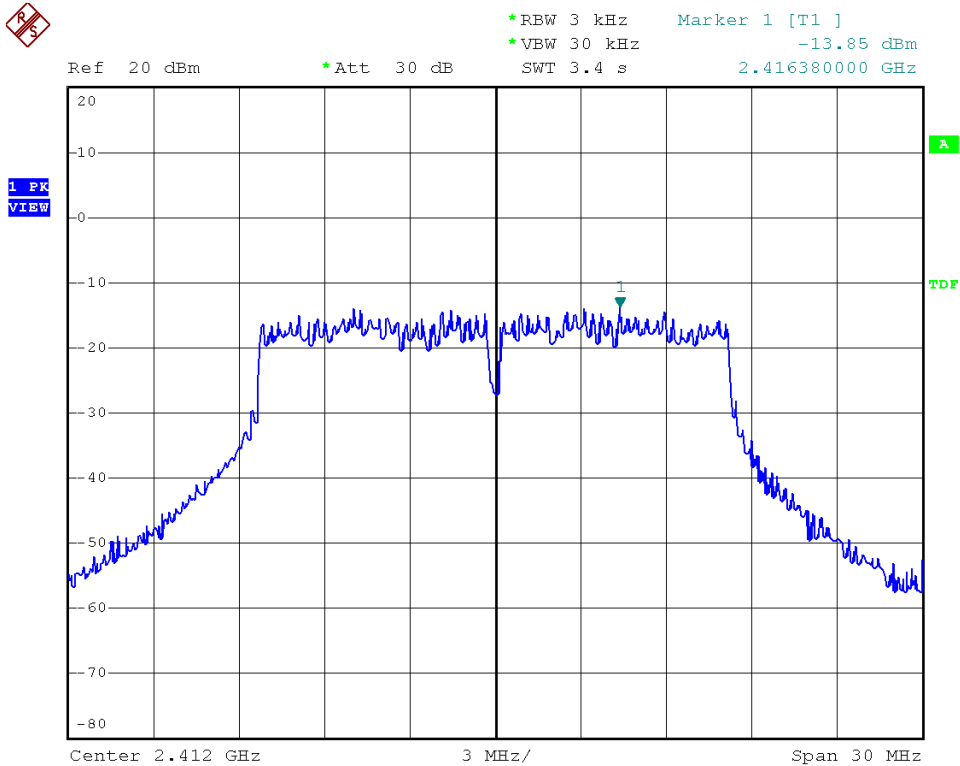




Modulation Standard: 802.11b (11Mbps), ANT R  
Channel: 11

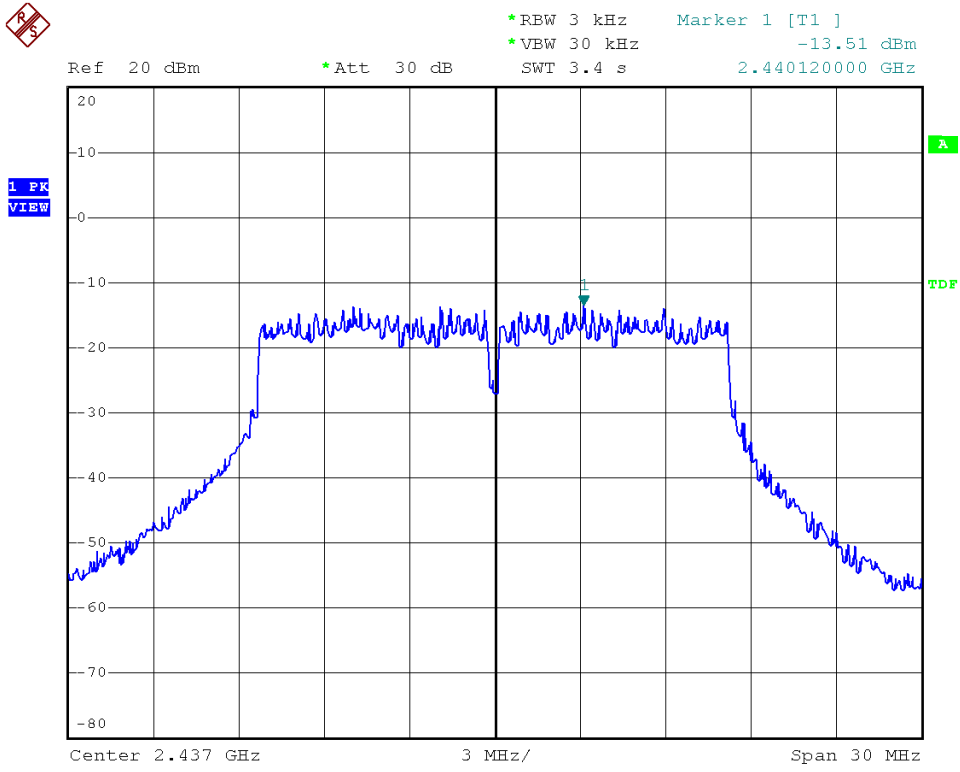


Modulation Standard: 802.11g (54Mbps), ANT R  
Channel: 01

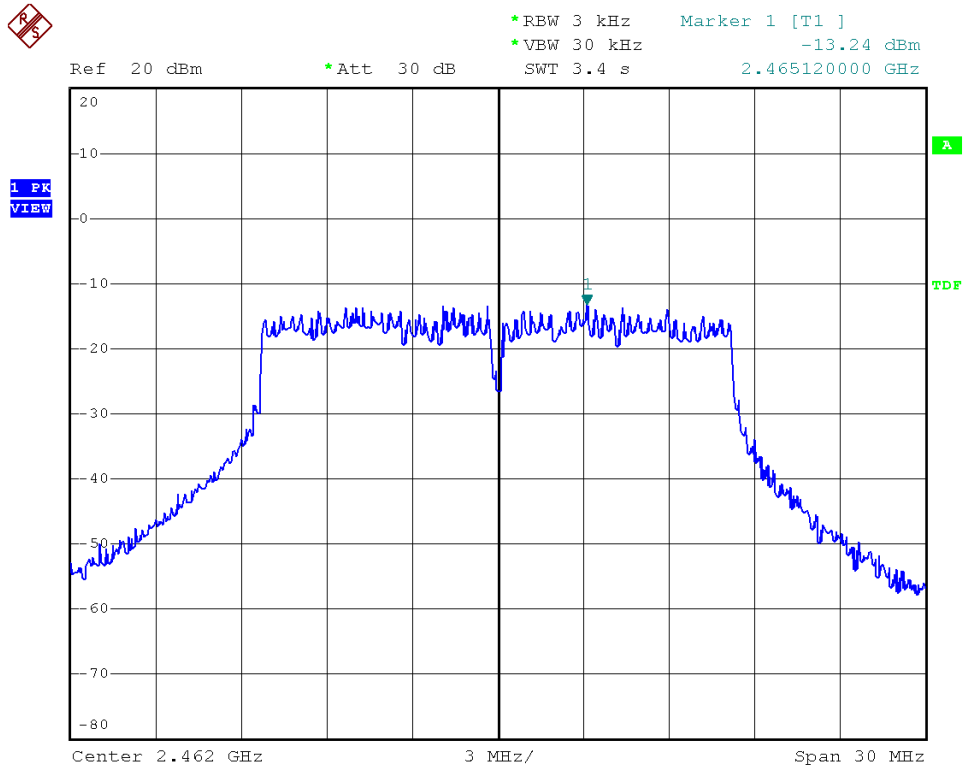




Modulation Standard: 802.11g (54Mbps), ANT R  
Channel: 06

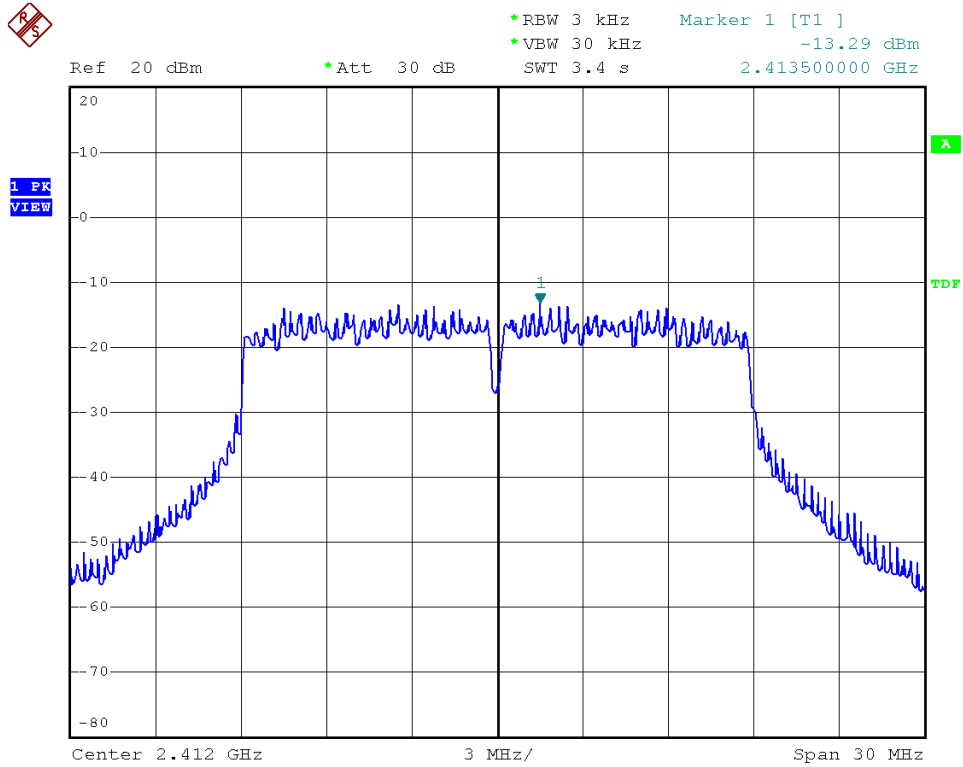


Modulation Standard: 802.11g (54Mbps), ANT R  
Channel: 11

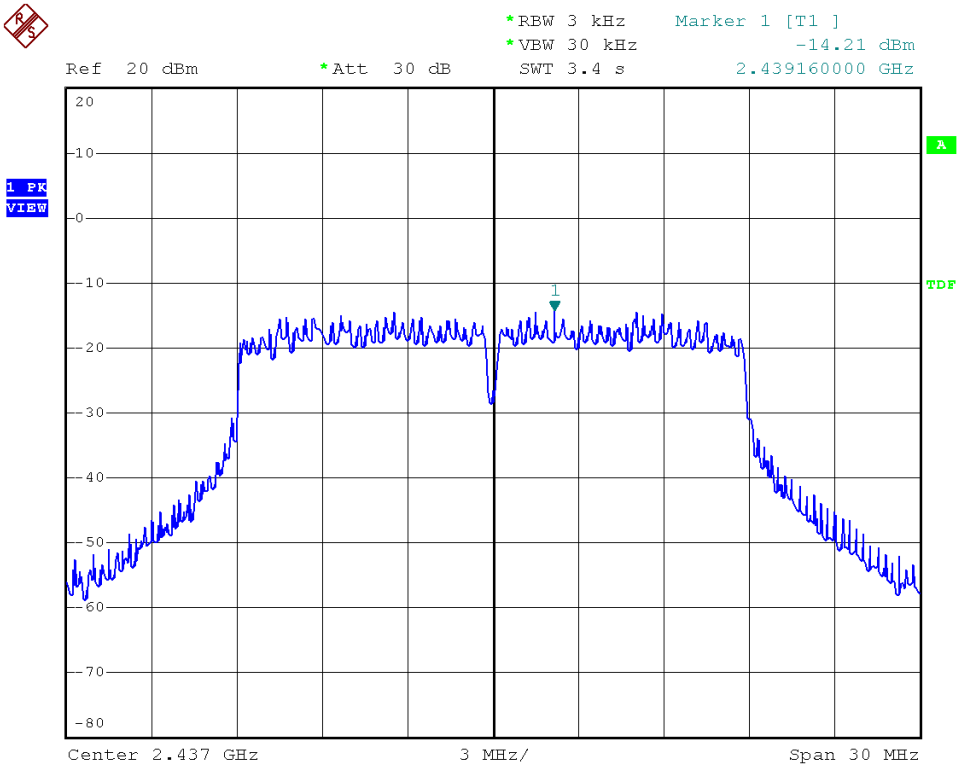




Modulation Standard: 802.11n HT20 (130Mbps), ANT R  
Channel: 01

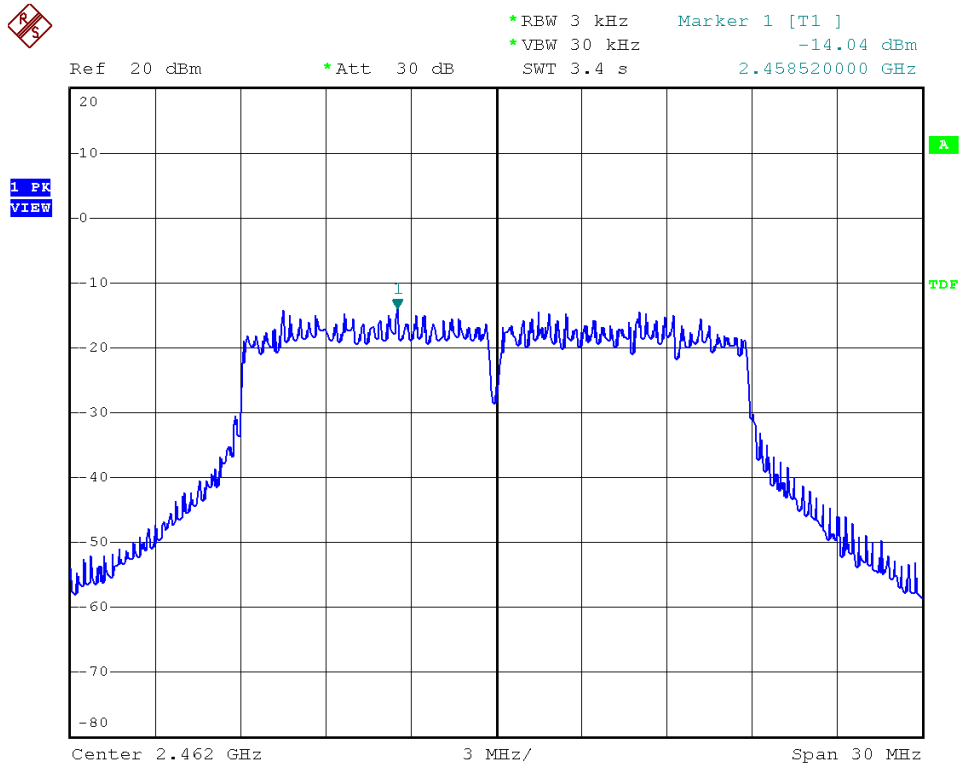


Modulation Standard: 802.11n HT20 (130Mbps), ANT R  
Channel: 06

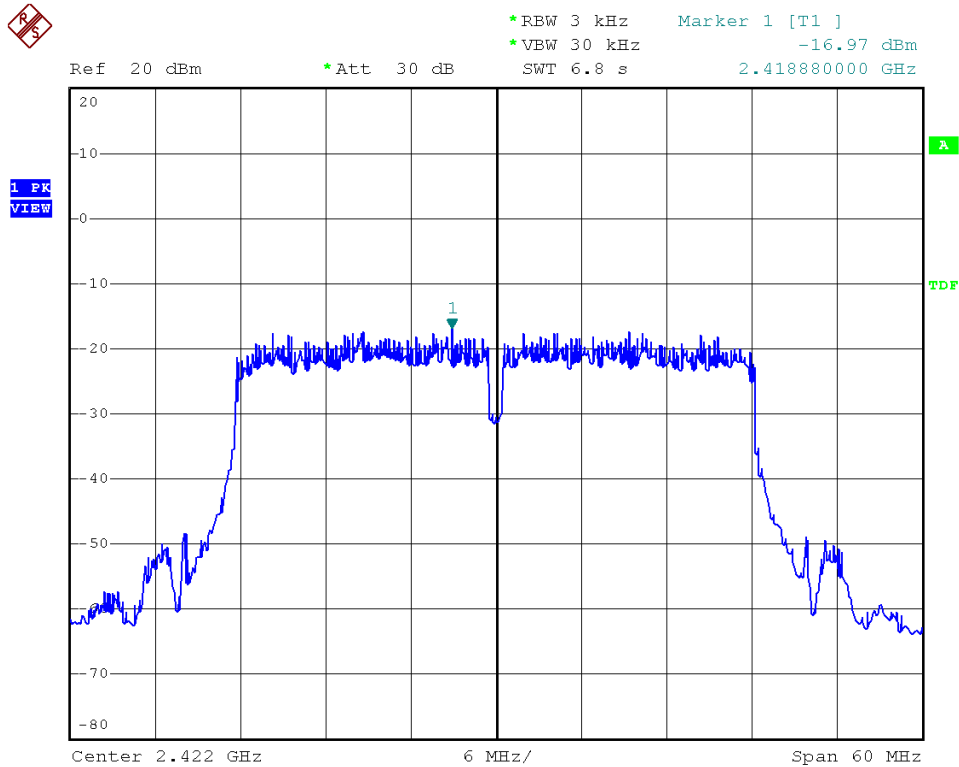




Modulation Standard: 802.11n HT20 (130Mbps), ANT R  
Channel: 11

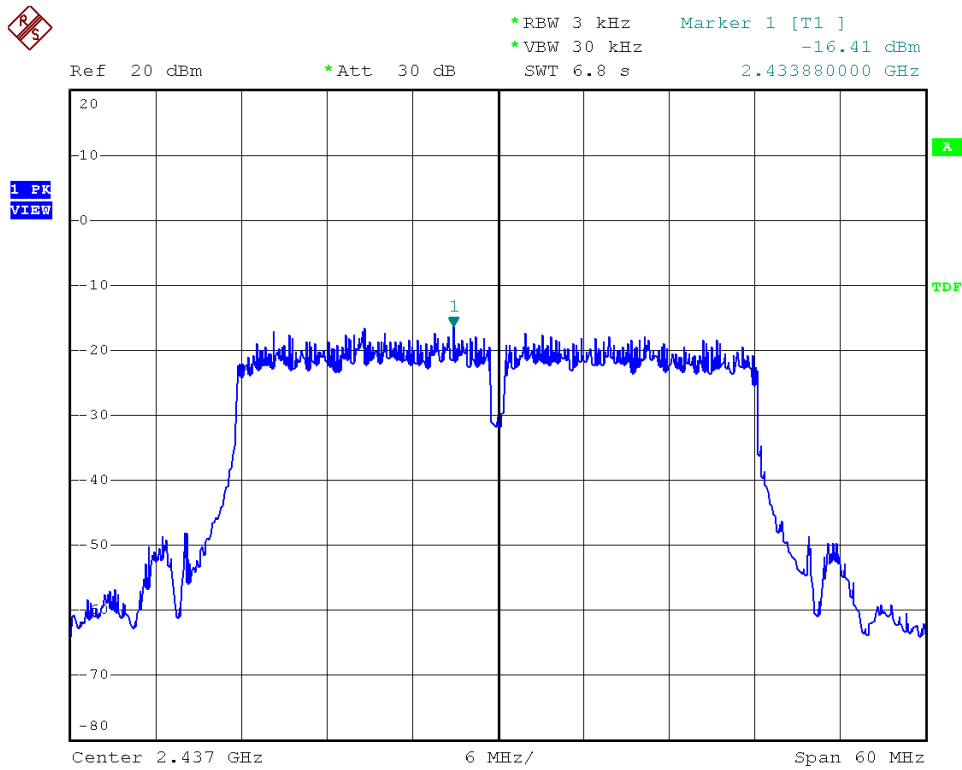


Modulation Standard: 802.11n HT40 (270Mbps), ANT R  
Channel: 03

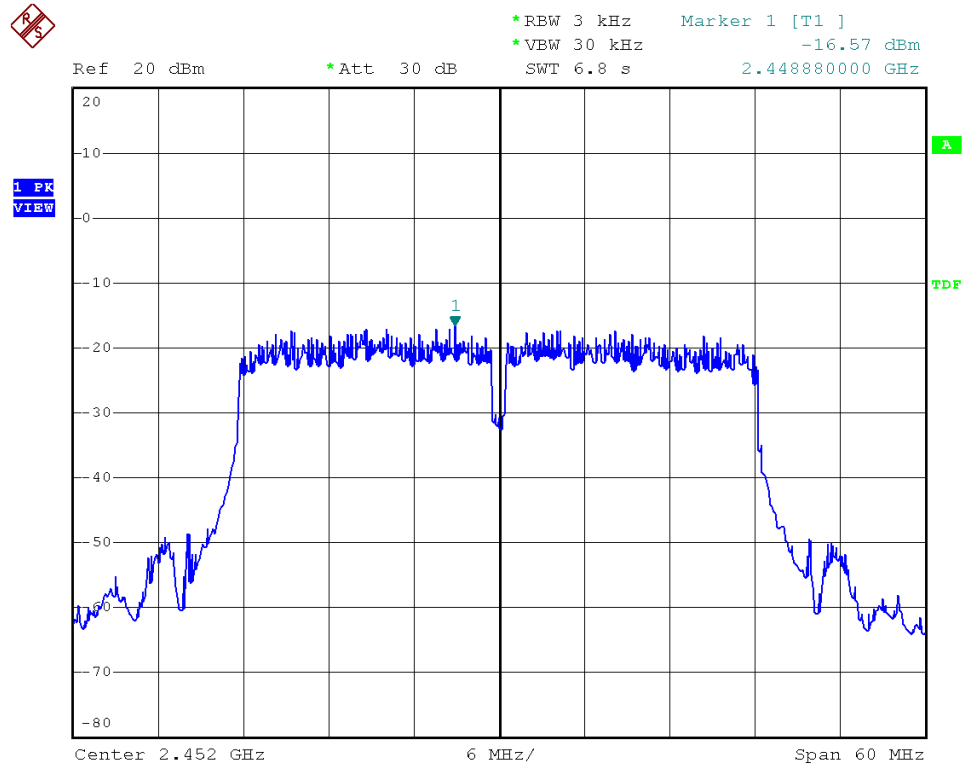




Modulation Standard: 802.11n HT40 (270Mbps), ANT R  
Channel: 06

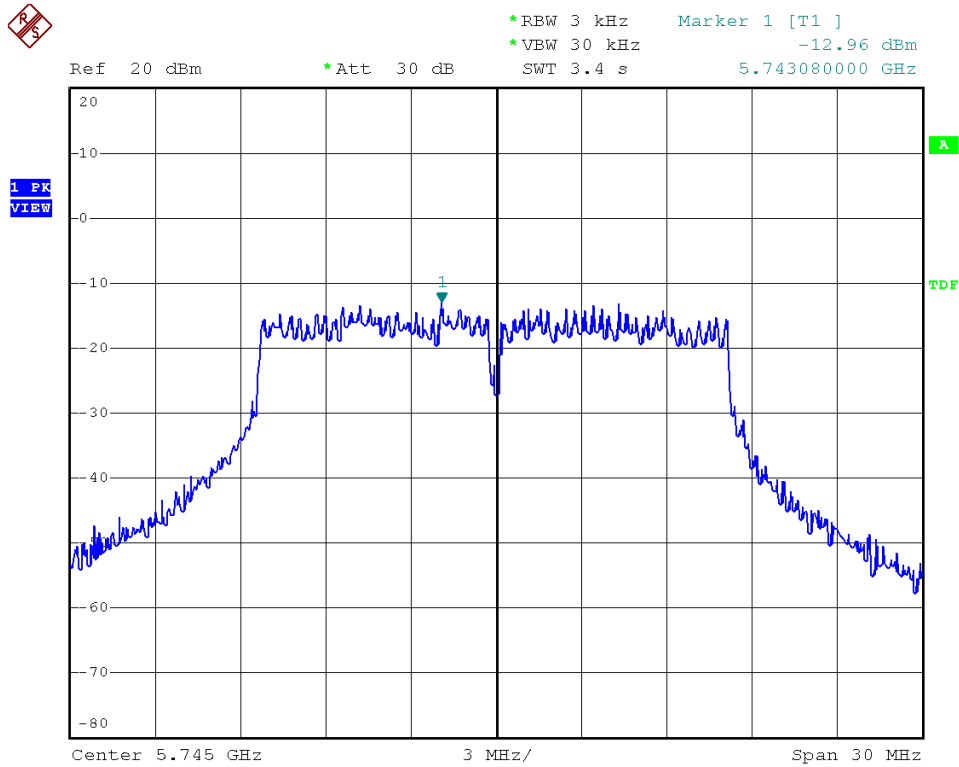


Modulation Standard: 802.11n HT40 (270Mbps), ANT R  
Channel: 09

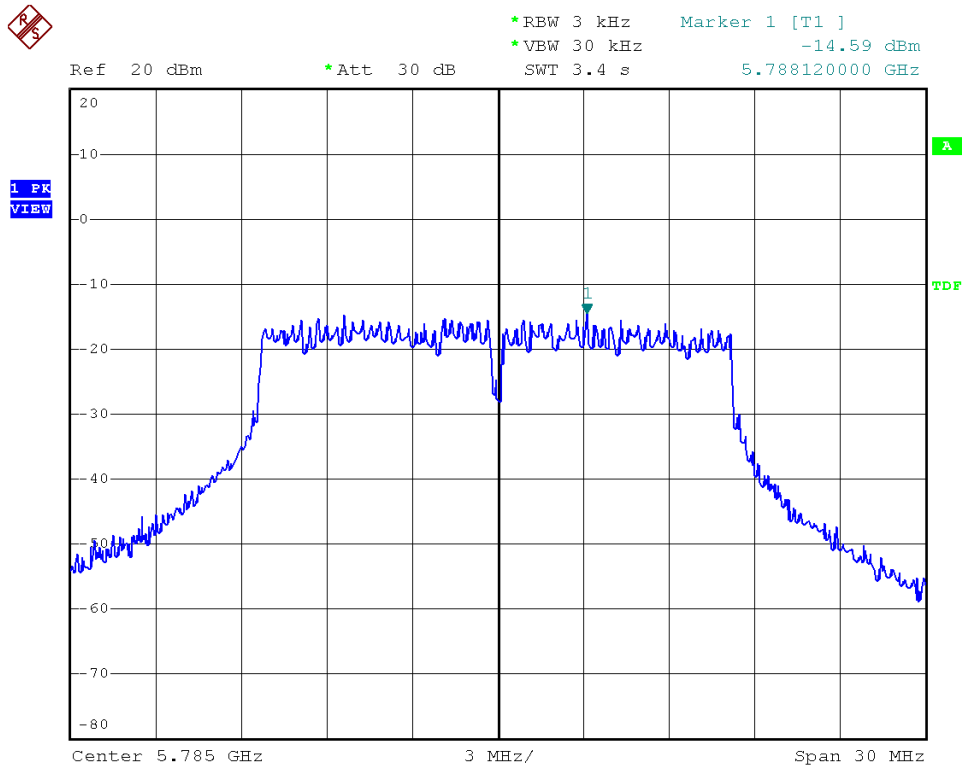




Modulation Standard: 802.11a (54Mbps), ANT R  
Channel: 149

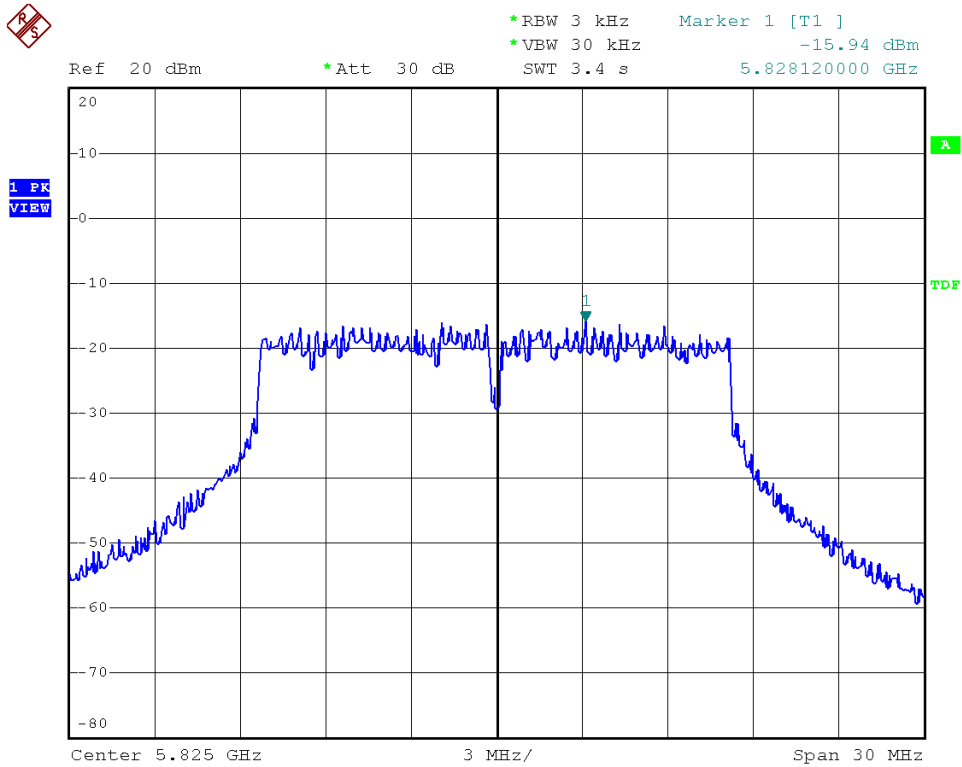


Modulation Standard: 802.11a (54Mbps), ANT R  
Channel: 157

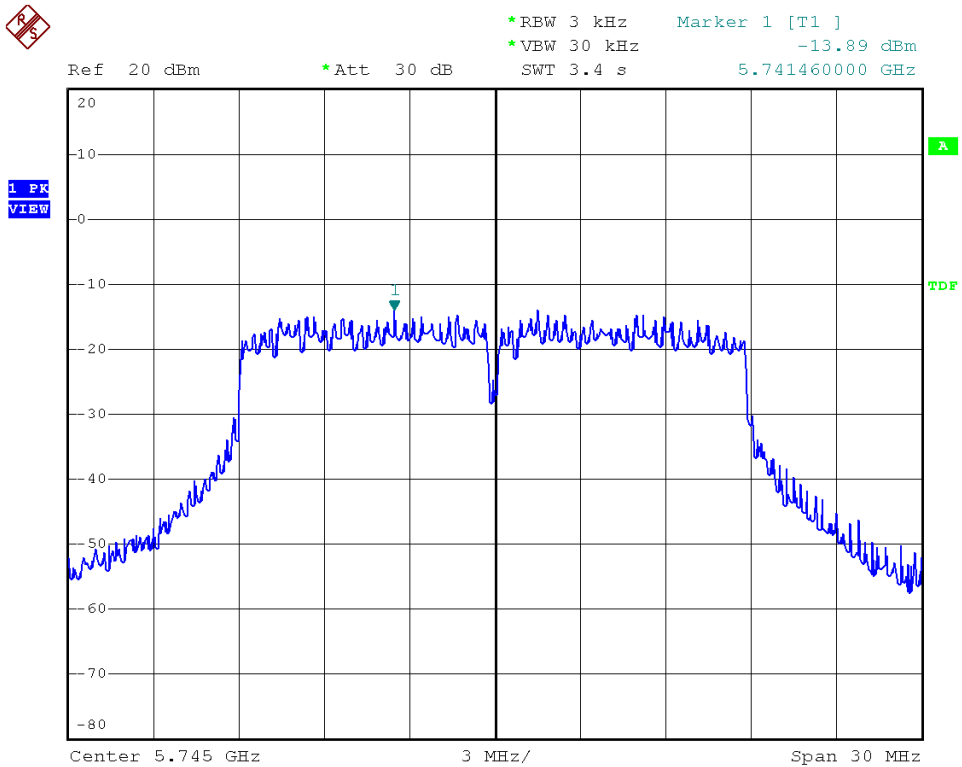




Modulation Standard: 802.11a (54Mbps), ANT R  
Channel: 165

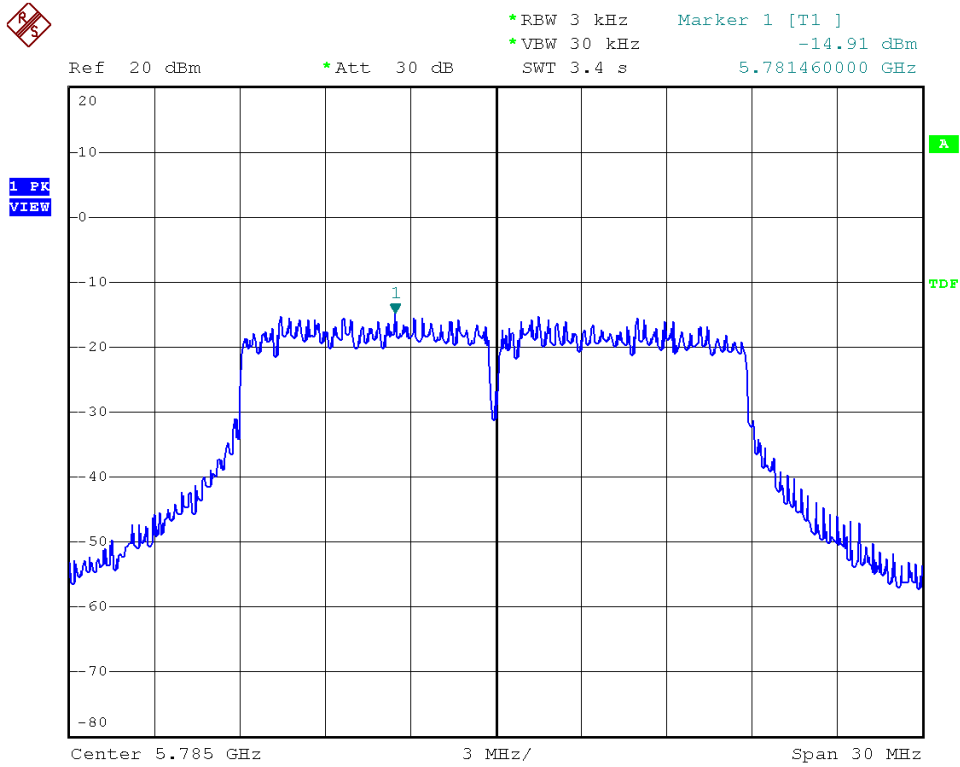


Modulation Standard: 802.11an HT20 (130Mbps), ANT R  
Channel: 149

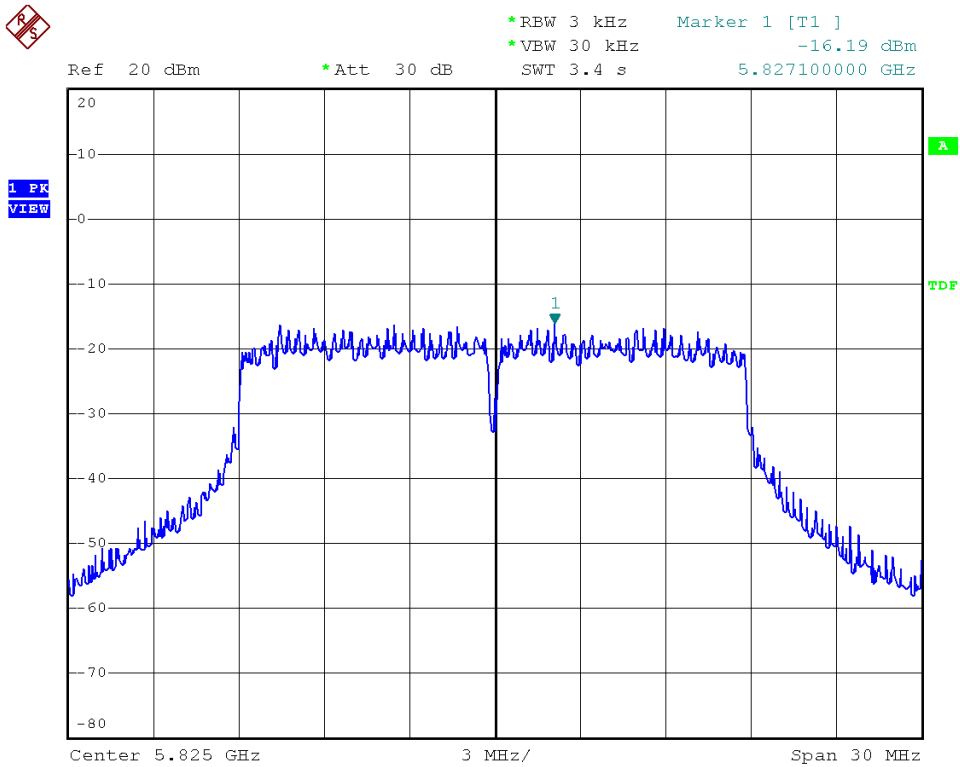




Modulation Standard: 802.11an HT20 (130Mbps), ANT R  
Channel: 157



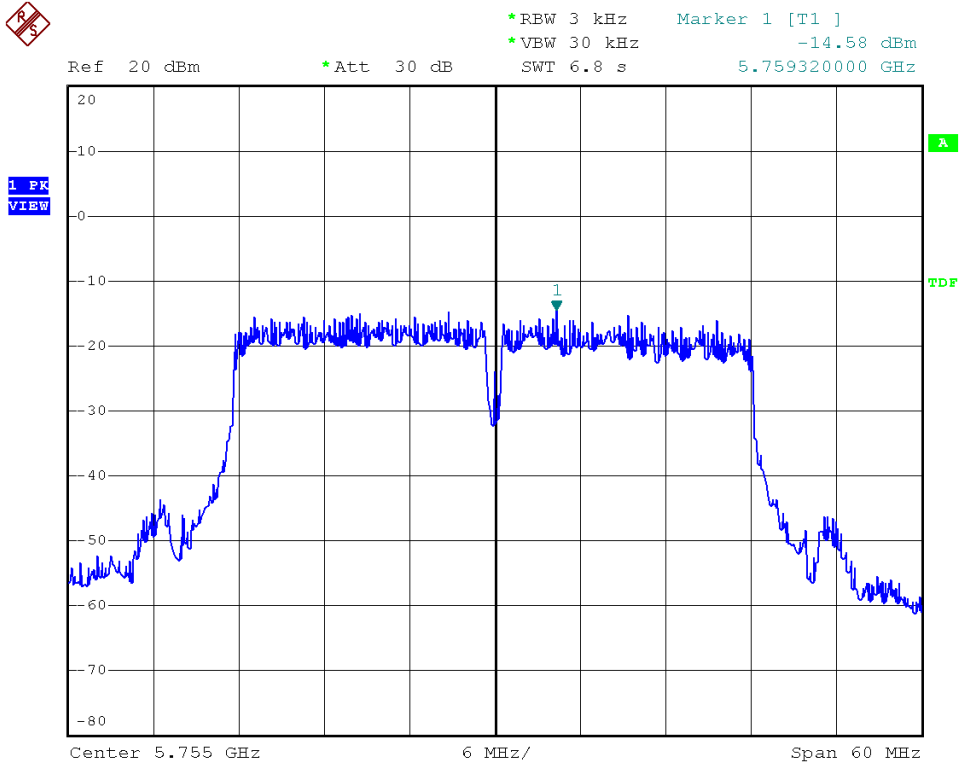
Modulation Standard: 802.11an HT20 (130Mbps), ANT R  
Channel: 165



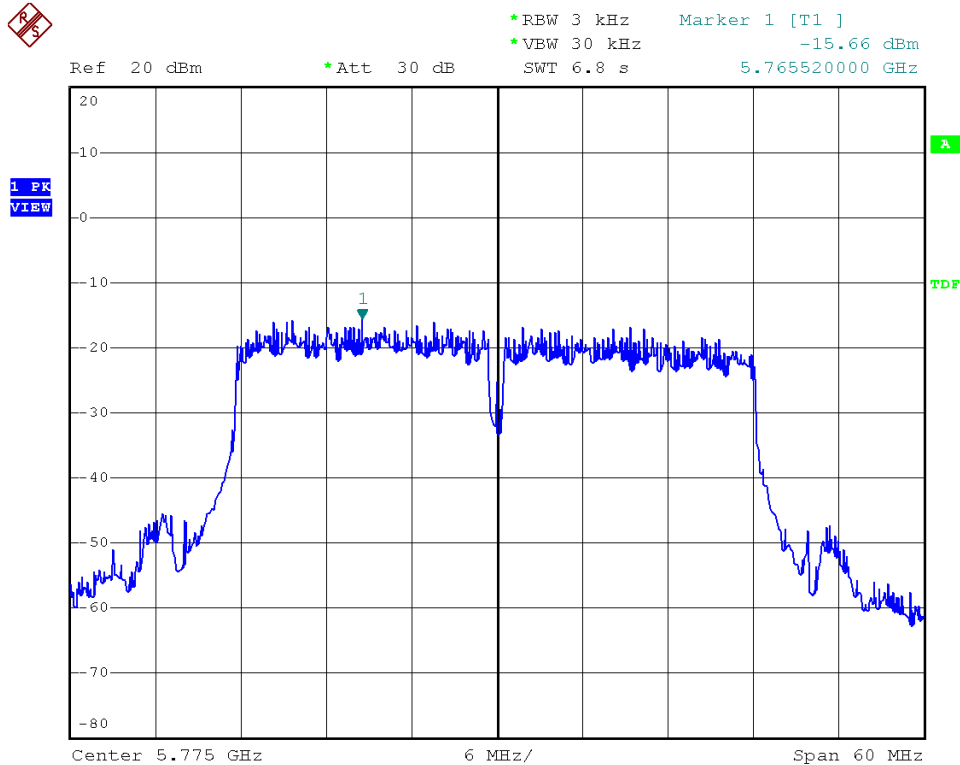




Modulation Standard: 802.11an HT40 (270Mbps), ANT R  
Channel: 151

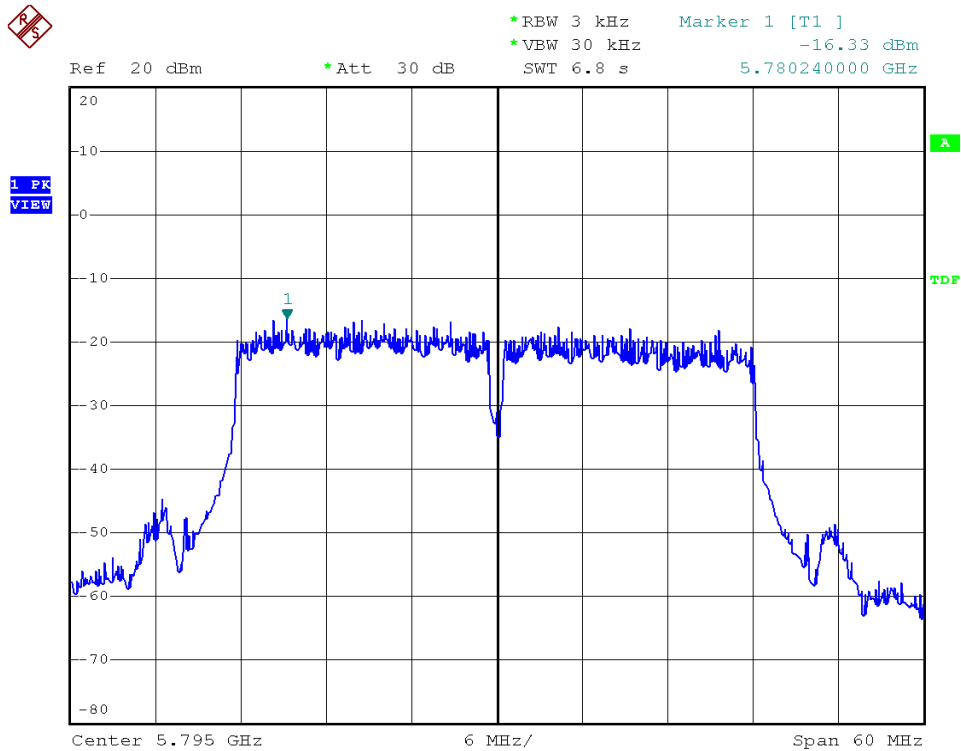


Modulation Standard: 802.11an HT40 (270Mbps), ANT R  
Channel: 155

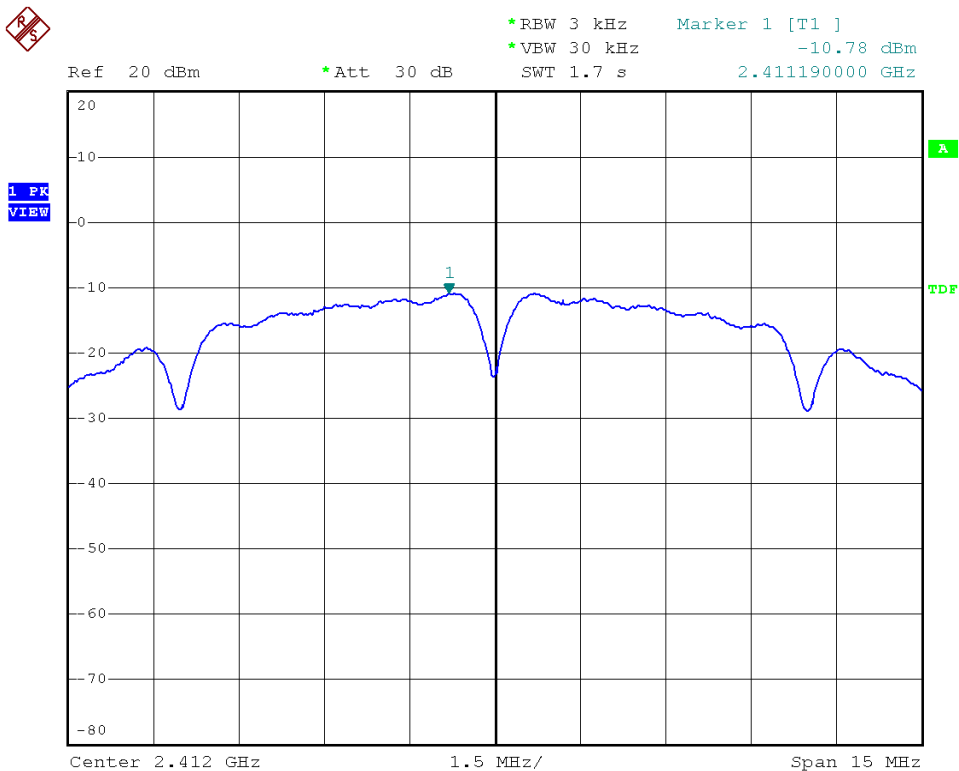




Modulation Standard: 802.11an HT40 (270Mbps), ANT R  
Channel: 159

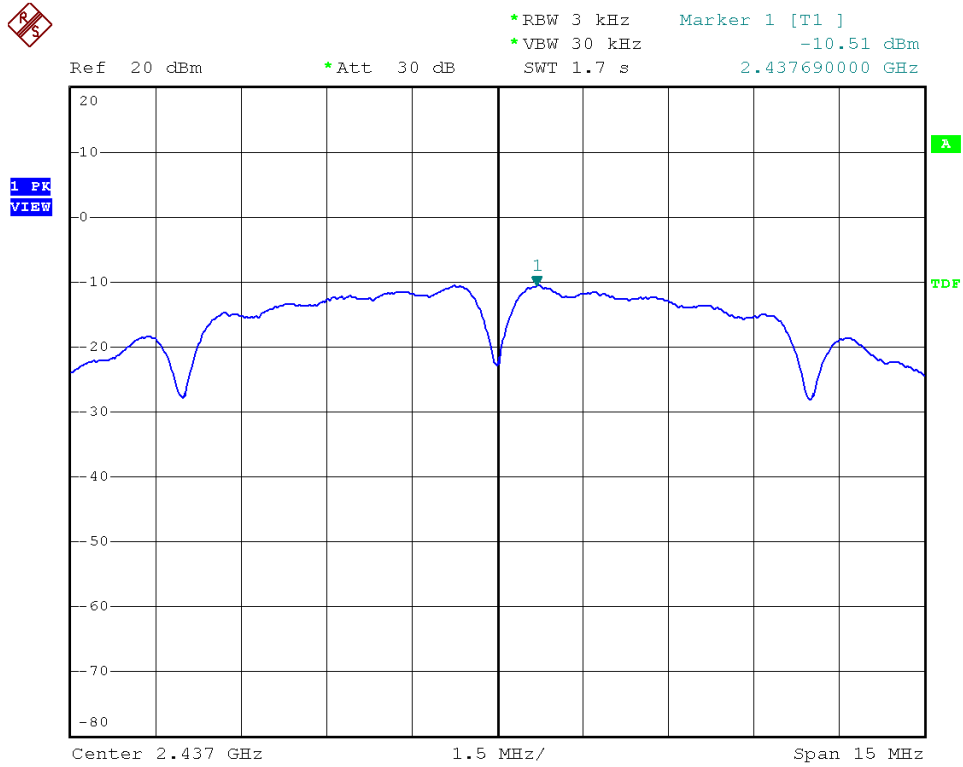


Modulation Standard: 802.11b (11Mbps), ANT L  
Channel: 01

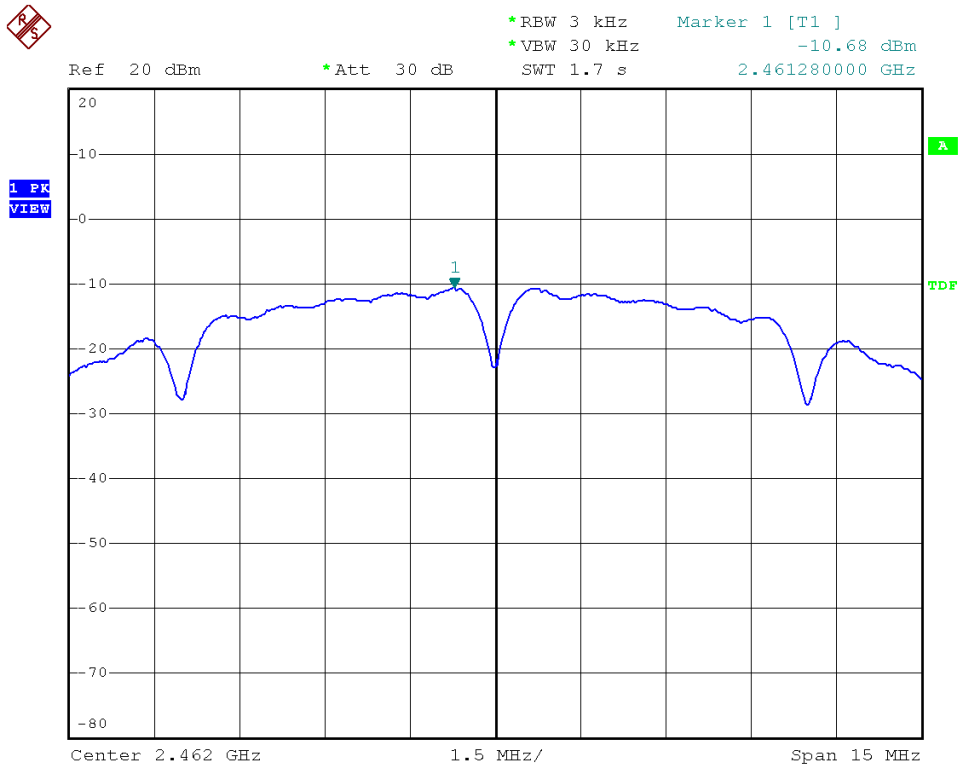




Modulation Standard: 802.11b (11Mbps), ANT L  
Channel: 06

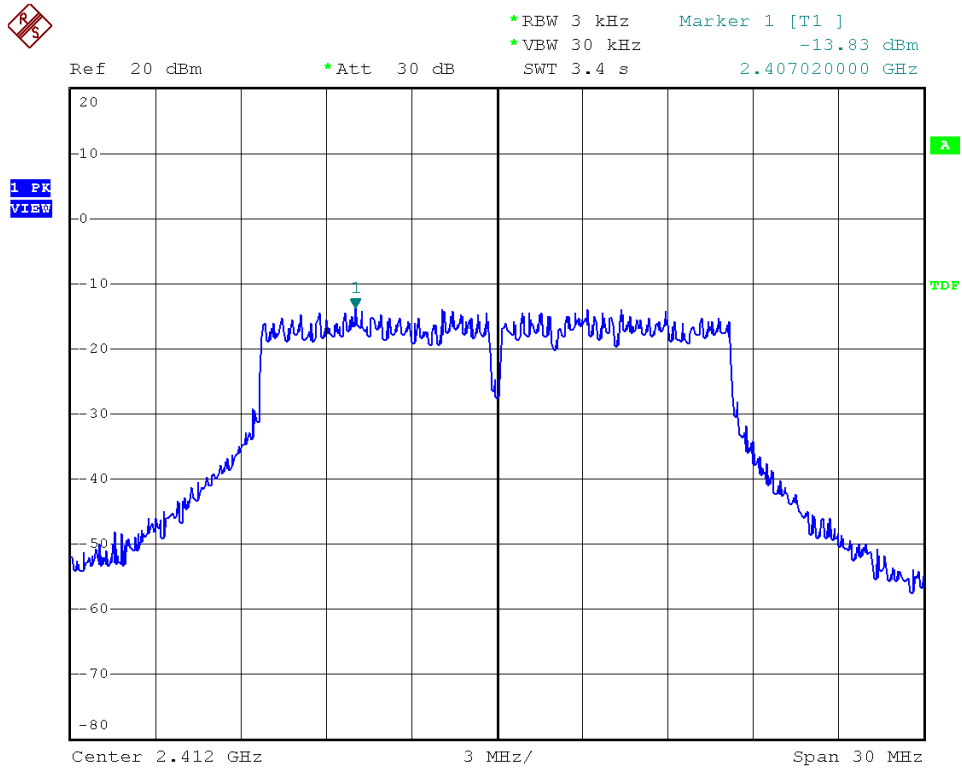


Modulation Standard: 802.11b (11Mbps), ANT L  
Channel: 11

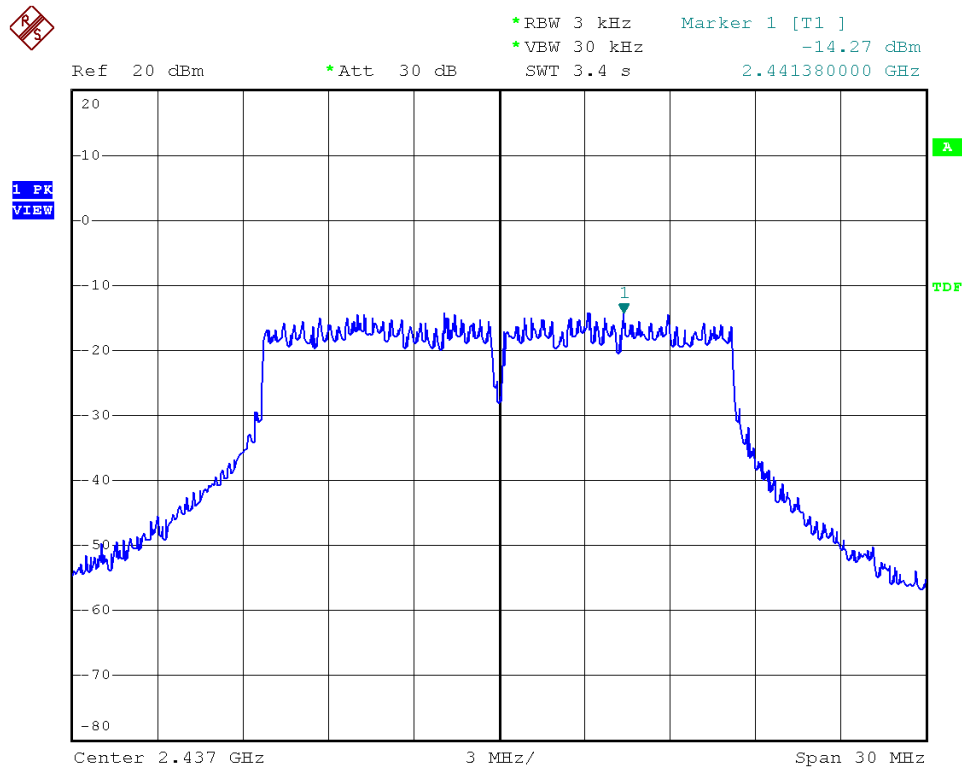




Modulation Standard: 802.11g (54Mbps), ANT L  
Channel: 01

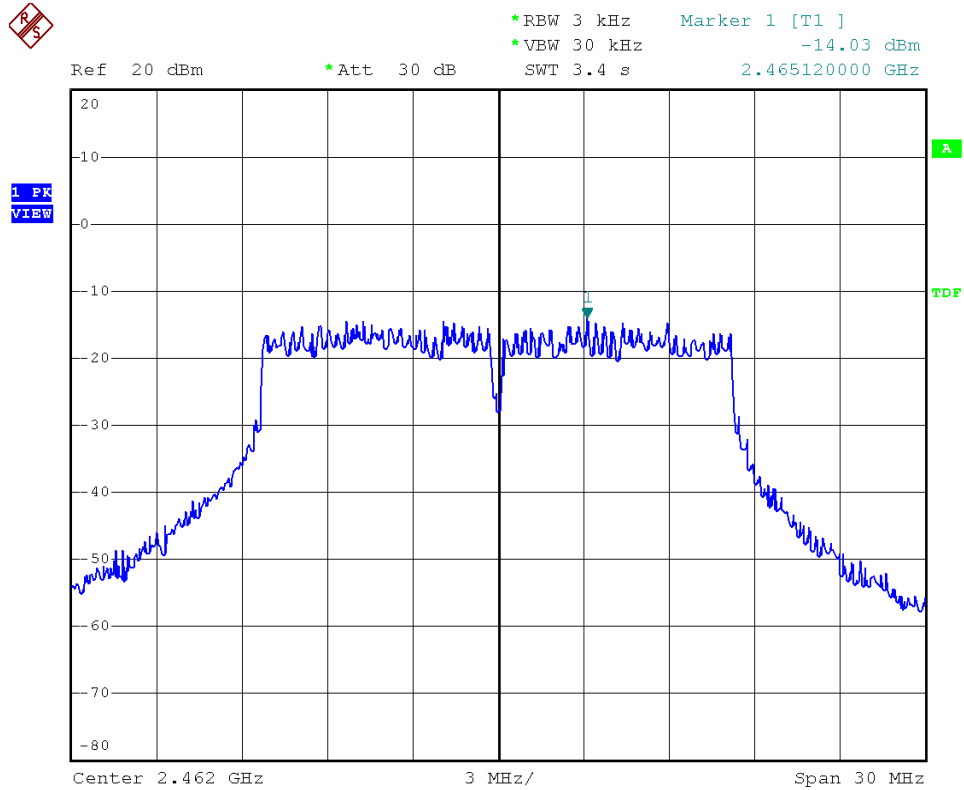


Modulation Standard: 802.11g (54Mbps), ANT L  
Channel: 06

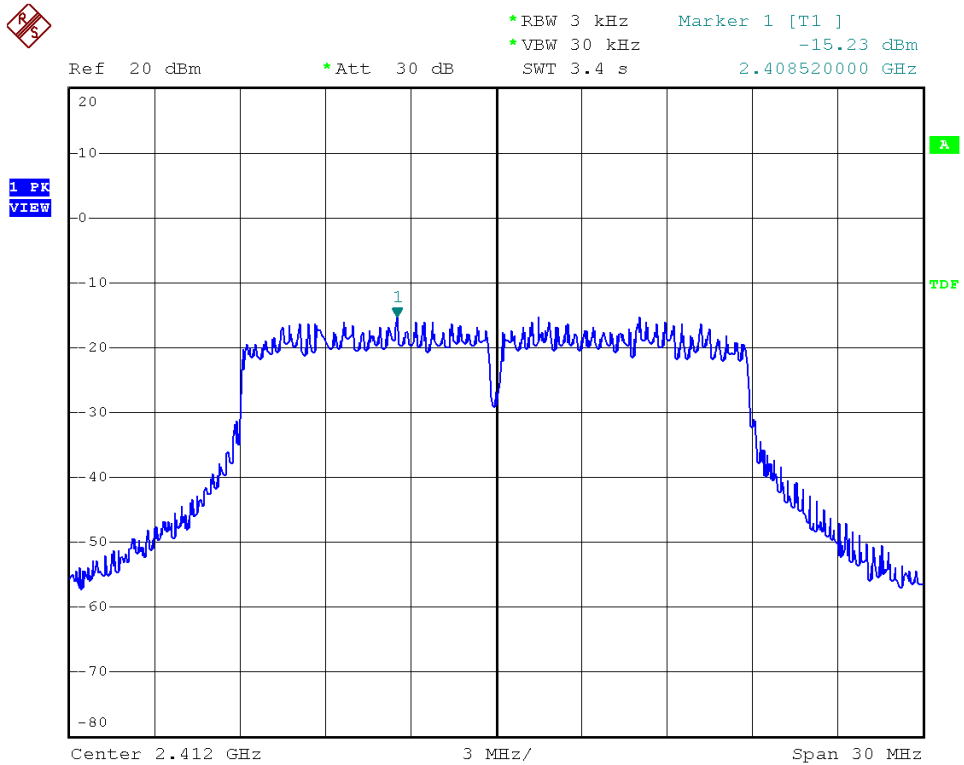




Modulation Standard: 802.11g (54Mbps), ANT L  
Channel: 11

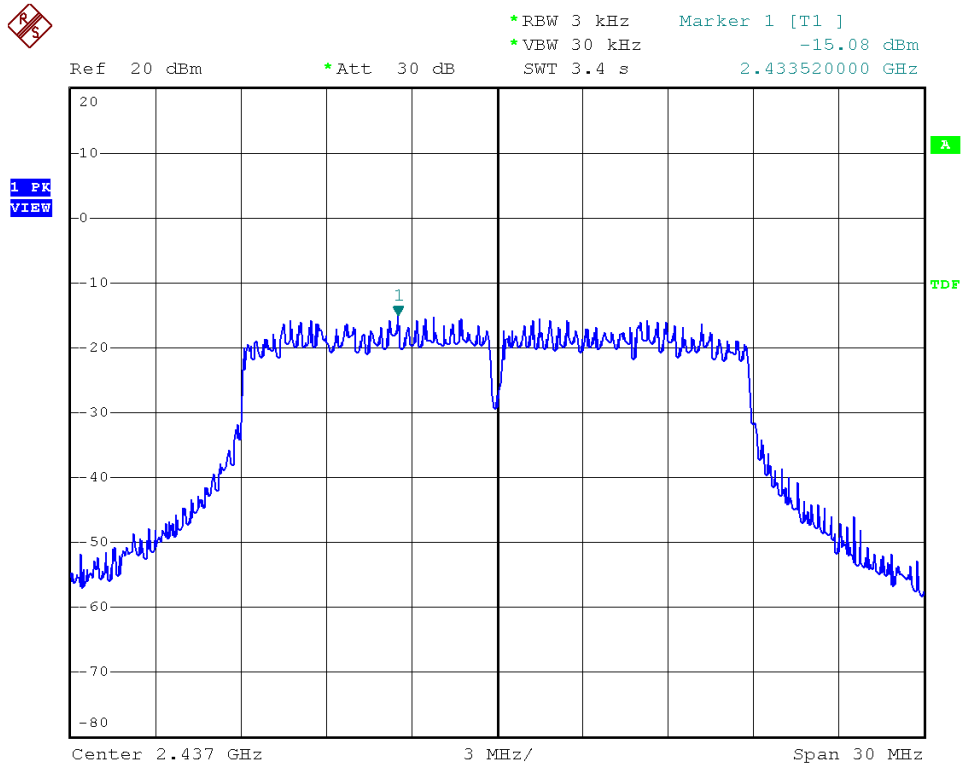


Modulation Standard: 802.11n HT20 (130Mbps), ANT L  
Channel: 01

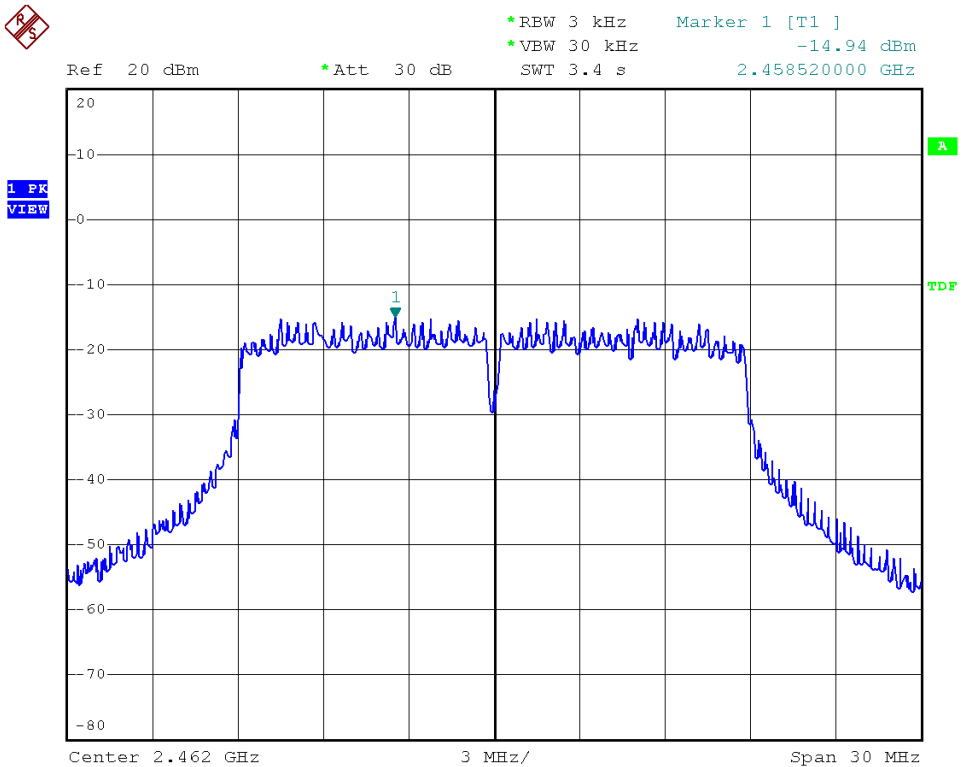




Modulation Standard: 802.11n HT20 (130Mbps), ANT L  
Channel: 06

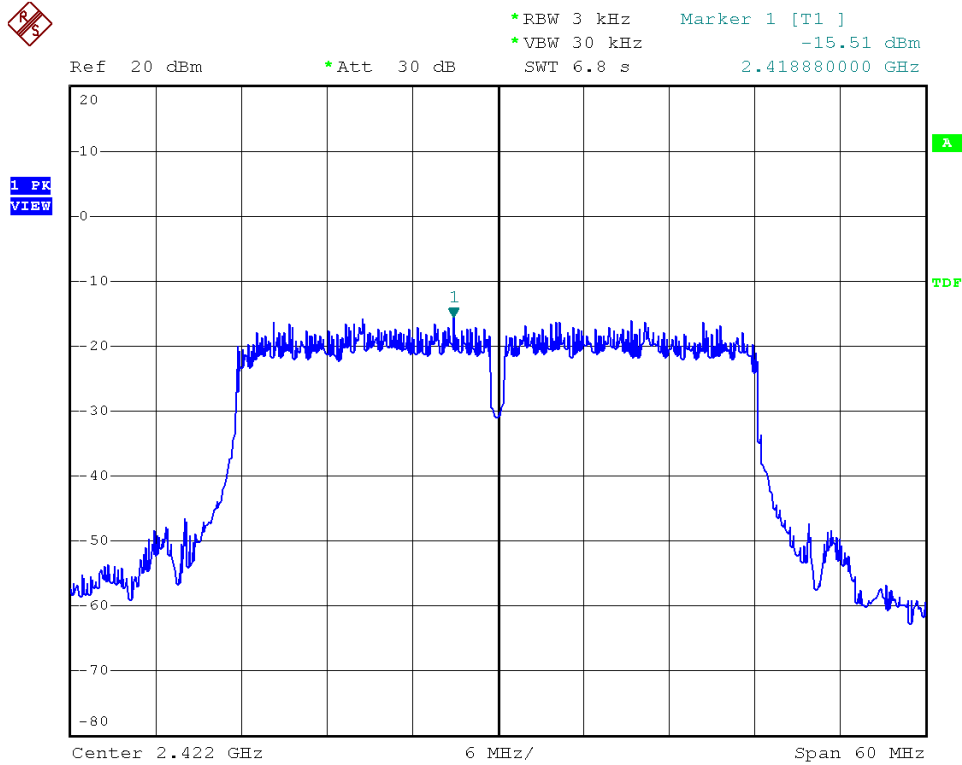


Modulation Standard: 802.11n HT20 (130Mbps), ANT L  
Channel: 11

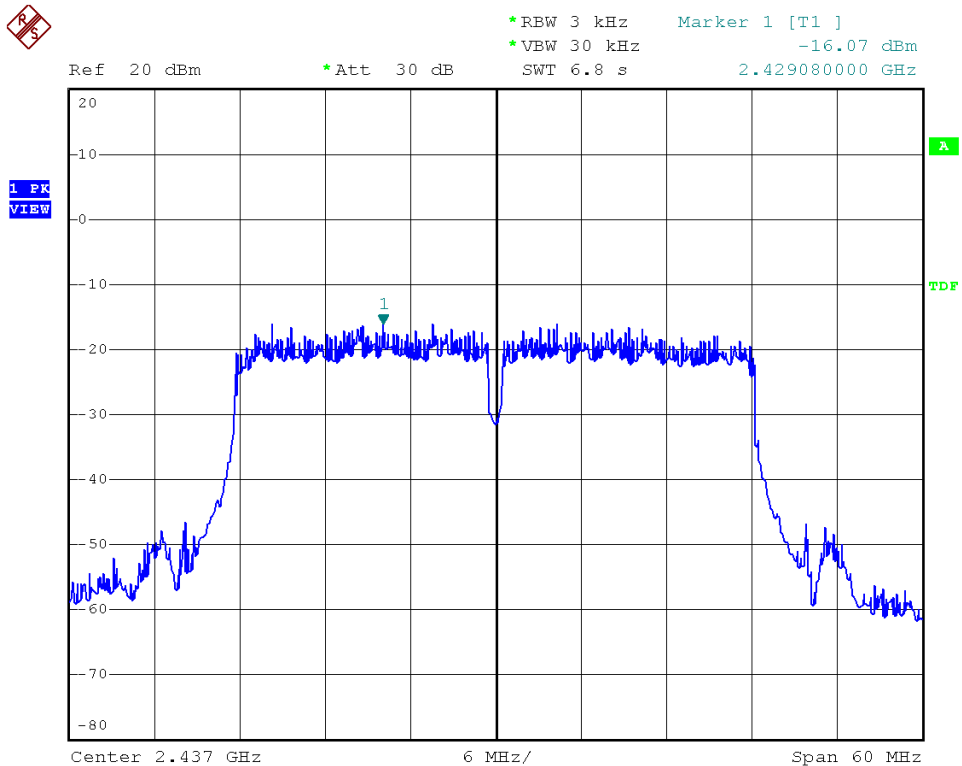




Modulation Standard: 802.11n HT40 (270Mbps), ANT L  
Channel: 03

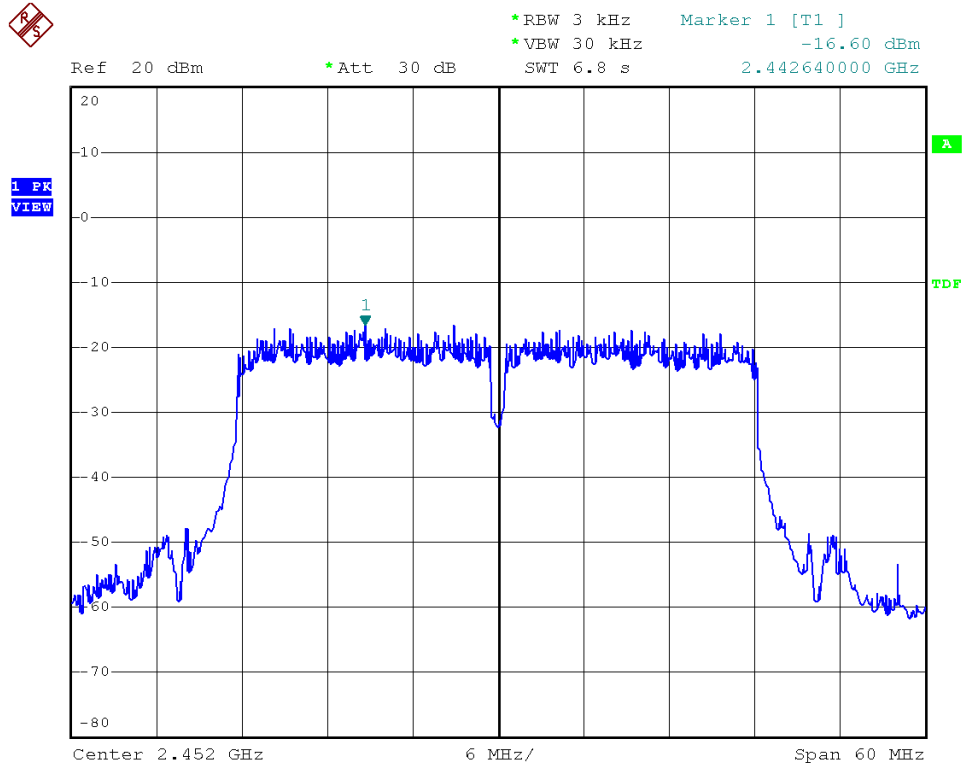


Modulation Standard: 802.11n HT40 (270Mbps), ANT L  
Channel: 06

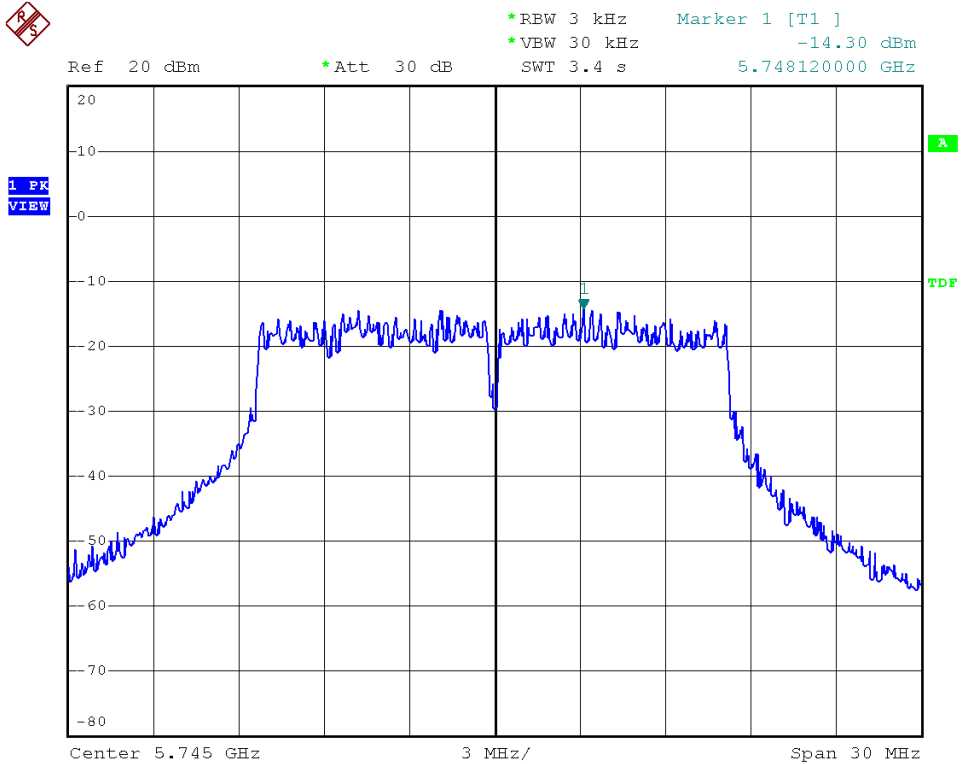




Modulation Standard: 802.11n HT40 (270Mbps), ANT L  
Channel: 09



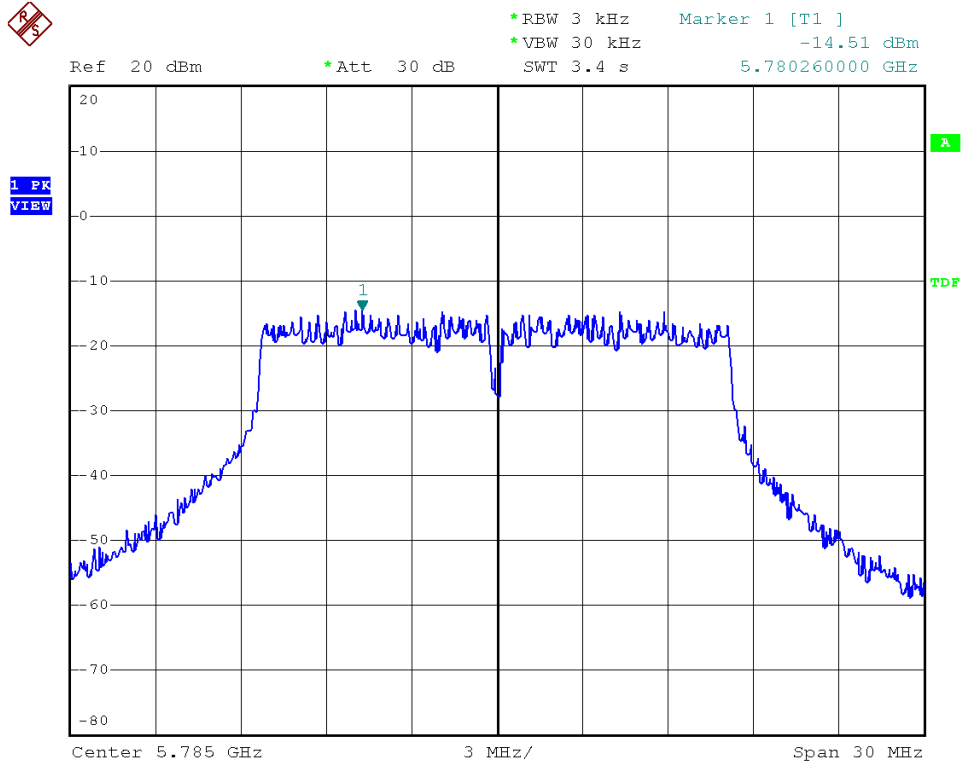
Modulation Standard: 802.11a (54Mbps), ANT L  
Channel: 149



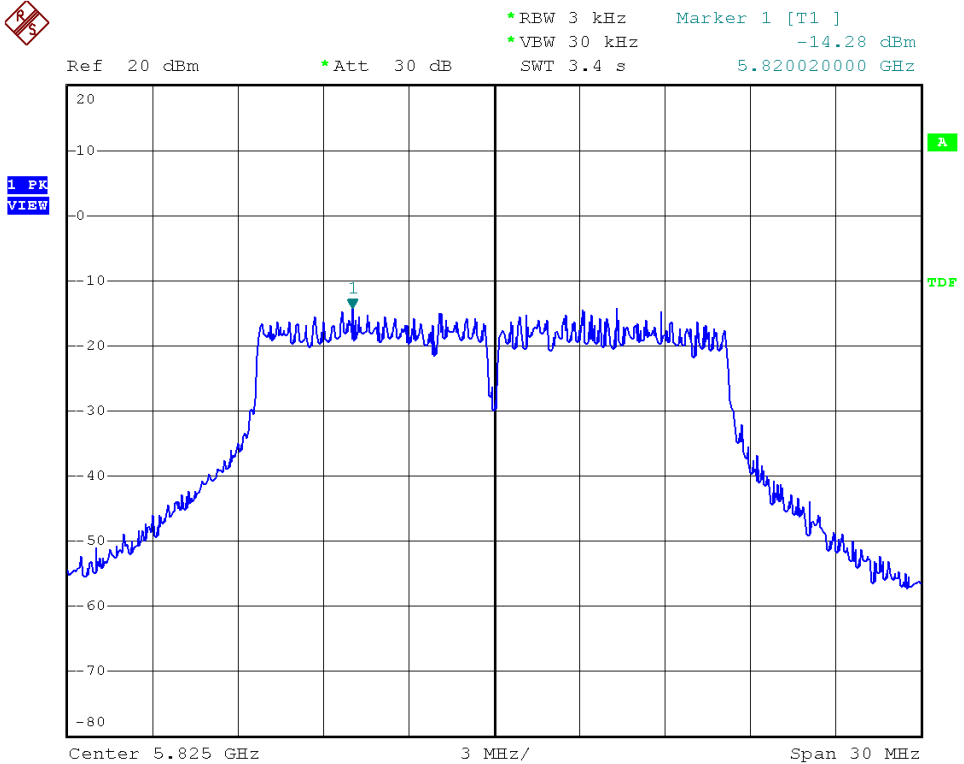




Modulation Standard: 802.11a (54Mbps), ANT L  
Channel: 157

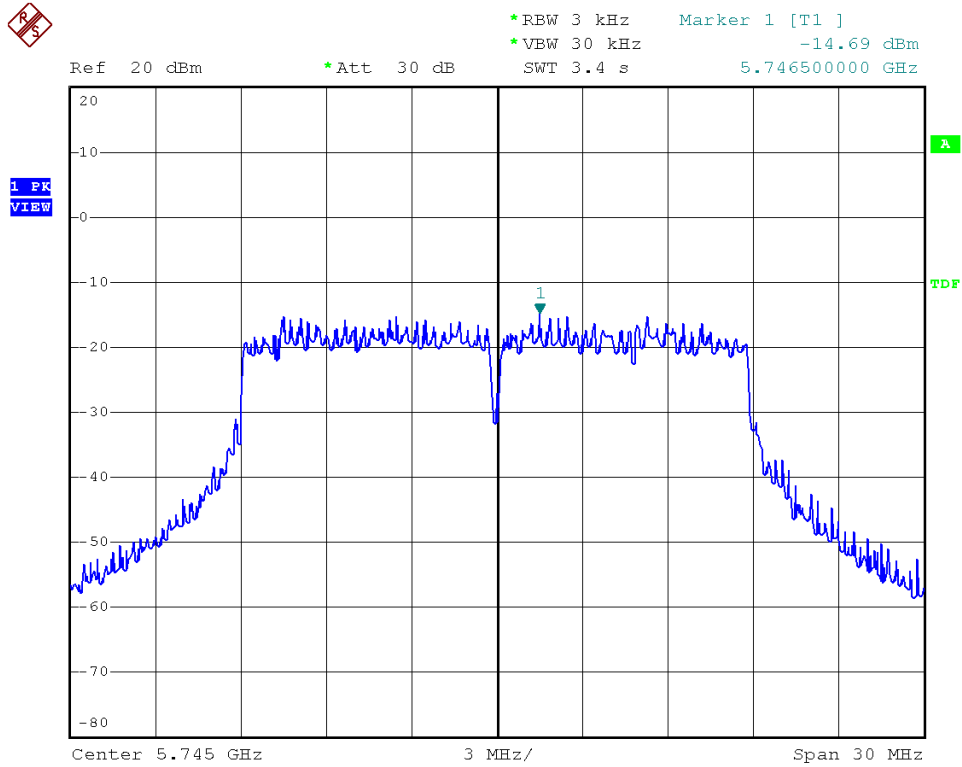


Modulation Standard: 802.11a (54Mbps), ANT L  
Channel: 165

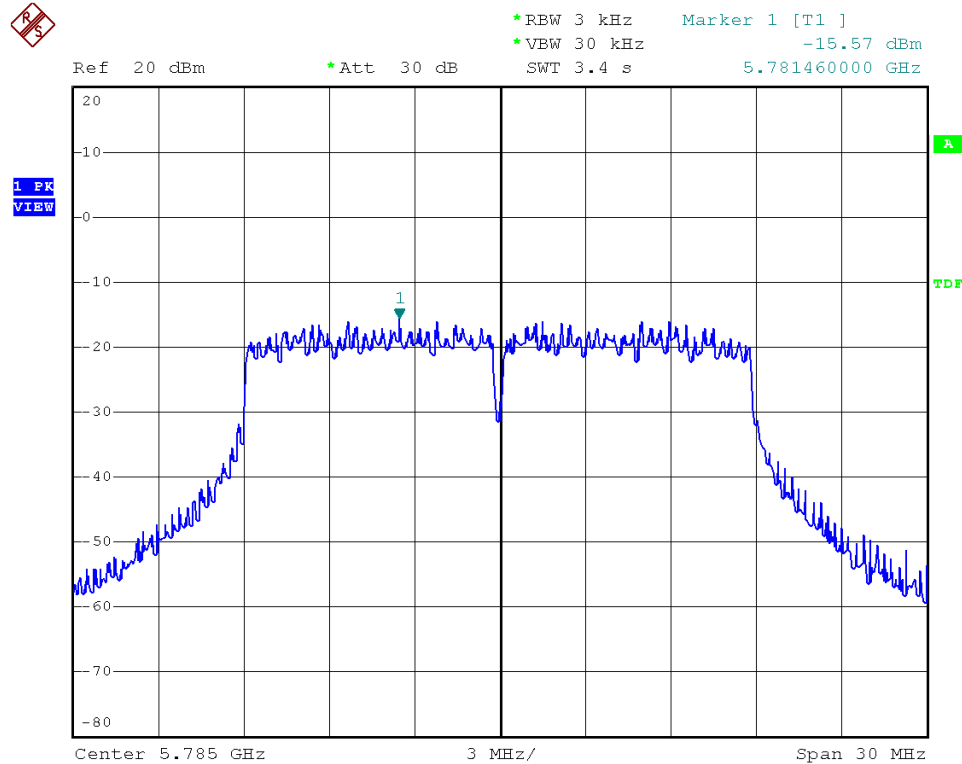




Modulation Standard: 802.11an HT20 (130Mbps), ANT L  
Channel: 149

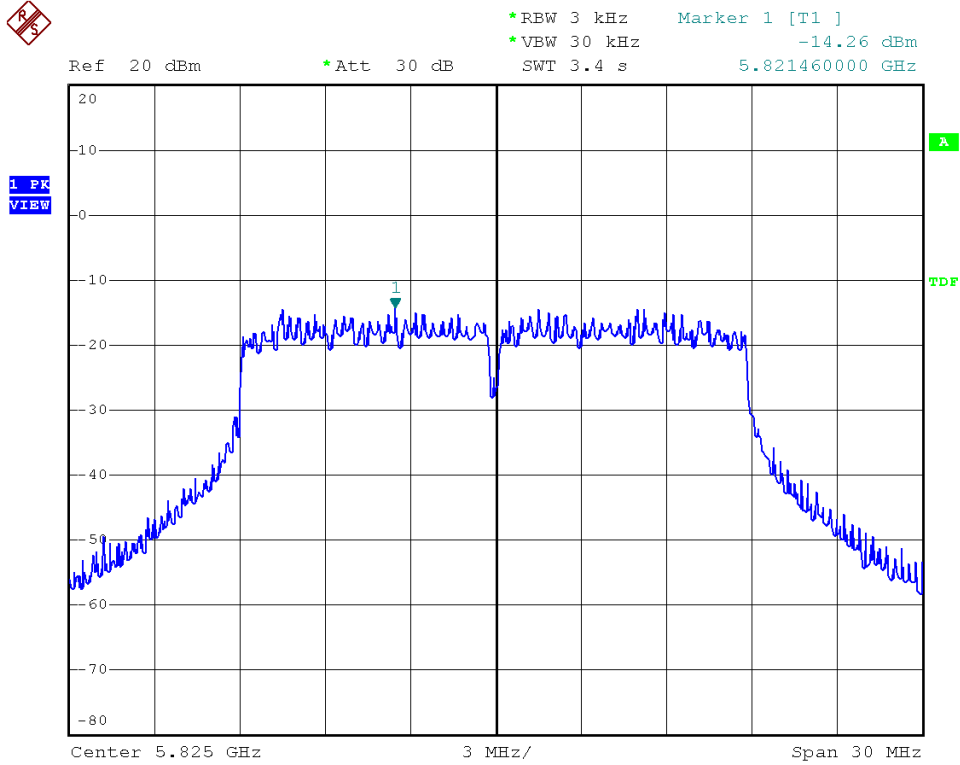


Modulation Standard: 802.11an HT20 (130Mbps), ANT L  
Channel: 157

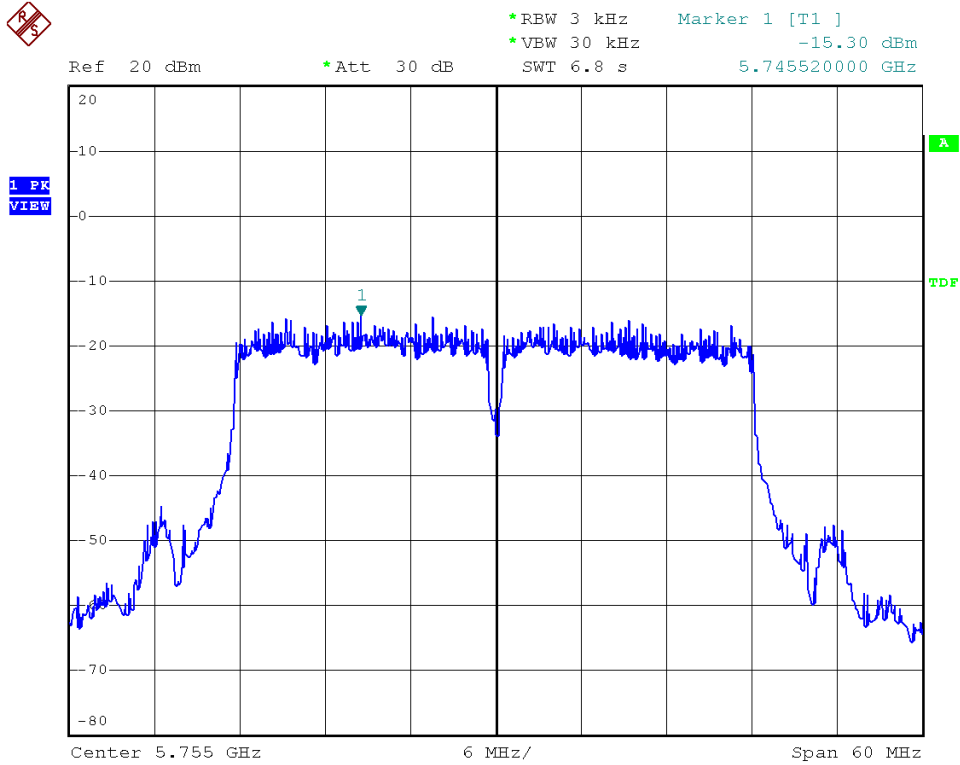




Modulation Standard: 802.11an HT20 (130Mbps), ANT L  
Channel: 165

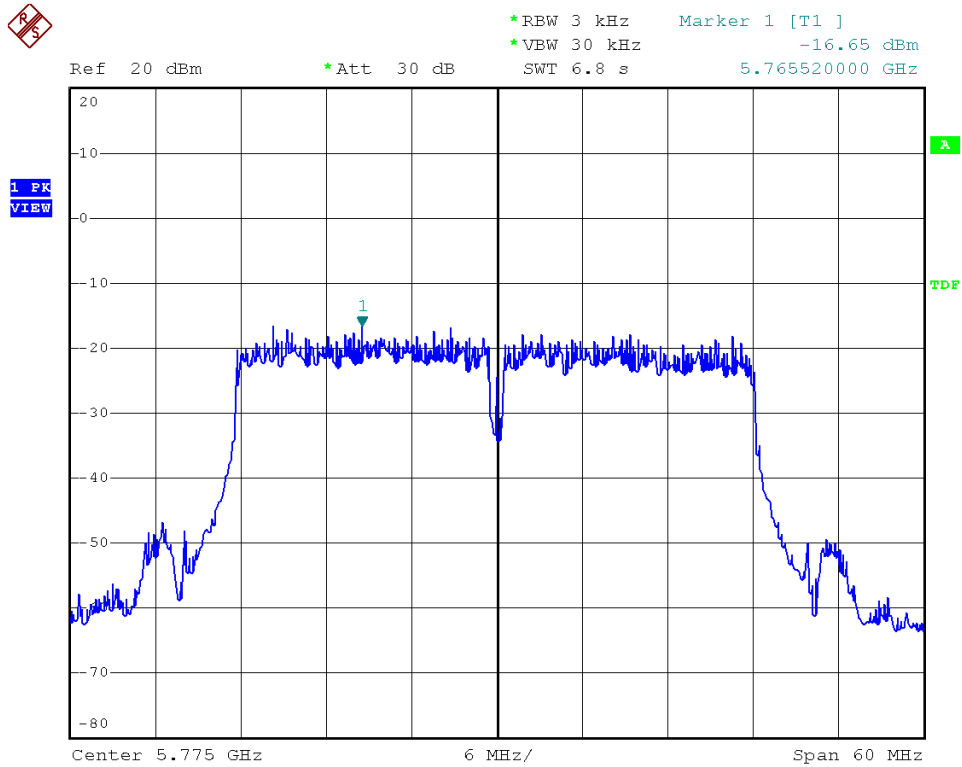


Modulation Standard: 802.11an HT40 (270Mbps), ANT L  
Channel: 151

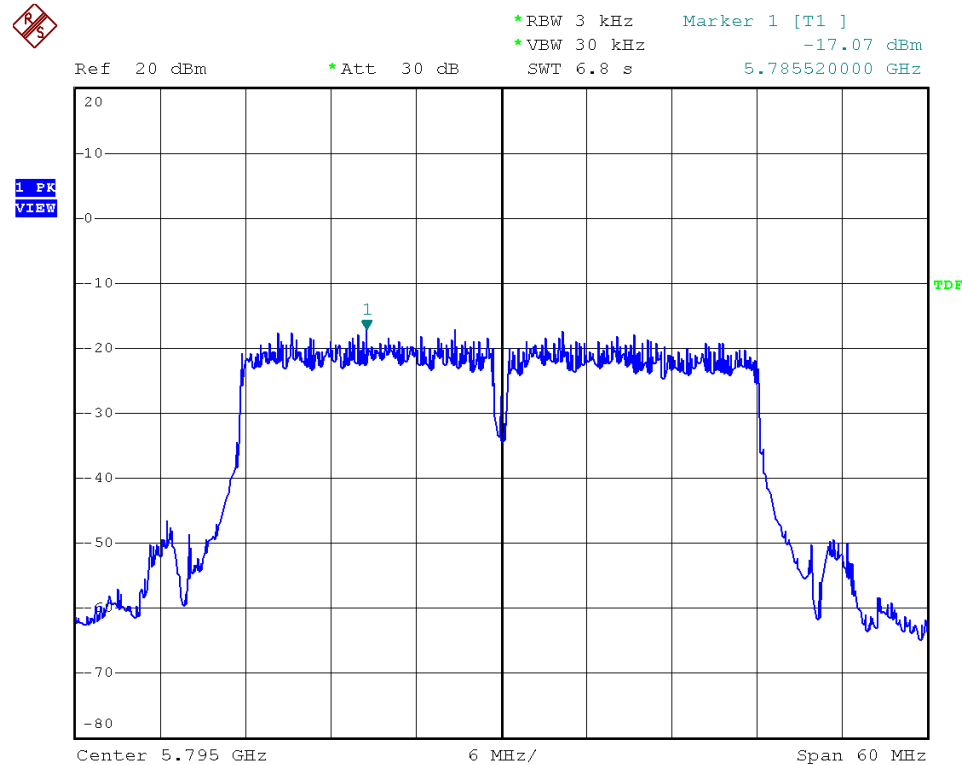




Modulation Standard: 802.11an HT40 (270Mbps), ANT L  
Channel: 155



Modulation Standard: 802.11an HT40 (270Mbps), ANT L  
Channel: 159





## 9. Band Edges Measurement

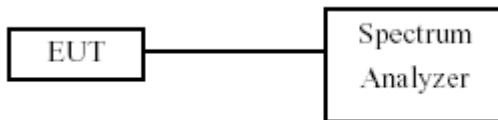
### 9.1 Test Limit

Below -20dB of the highest emission level of operating band (In 100 kHz Resolution Bandwidth)

### 9.2 Test Procedure

- a. The transmitter output was connected to the spectrum analyzer via a low lose cable.
- b. Set RBW of spectrum analyzer to 100 KHz and VBW of spectrum analyzer to 300 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- c. Peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20dB relative to the maximum measured in-band peak PSD level.
- d. The band edges was measured and recorded.

### 9.3 Test Setup Layout



### 9.4 Measurement Equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	R&S	FSP40	100047	2013/03/15	2014/03/14



**9.5 Test Result and Data**

Test Date: Aug. 27, 2013

Temperature: 25°C

Atmospheric pressure: 1019 hPa

Humidity: 42%

Modulation Standard	Channel	Frequency (MHz)	maximum value in frequency (MHz)		maximum value (dBm)	
			ANT R	ANT L	ANT R	ANT L
802.11b (11Mbps)	01	2412	2680.00	2680.00	-25.85	-22.55
	11	2462	2860.00	2860.00	-21.36	-24.30
802.11g (54Mbps)	01	2412	2400.00	2399.80	-25.90	-25.08
	11	2462	2500.10	2500.10	-40.55	-39.41
802.11n HT20 (130Mbps)	01	2412	2400.00	2399.60	-27.31	-27.23
	11	2462	2500.10	2500.10	-40.69	-39.19
802.11n HT40 (270Mbps)	03	2422	2398.40	2398.00	-26.08	-25.69
	09	2452	2500.00	2500.00	-35.44	-35.14

Test Date: Aug. 28, 2013

Temperature: 26°C

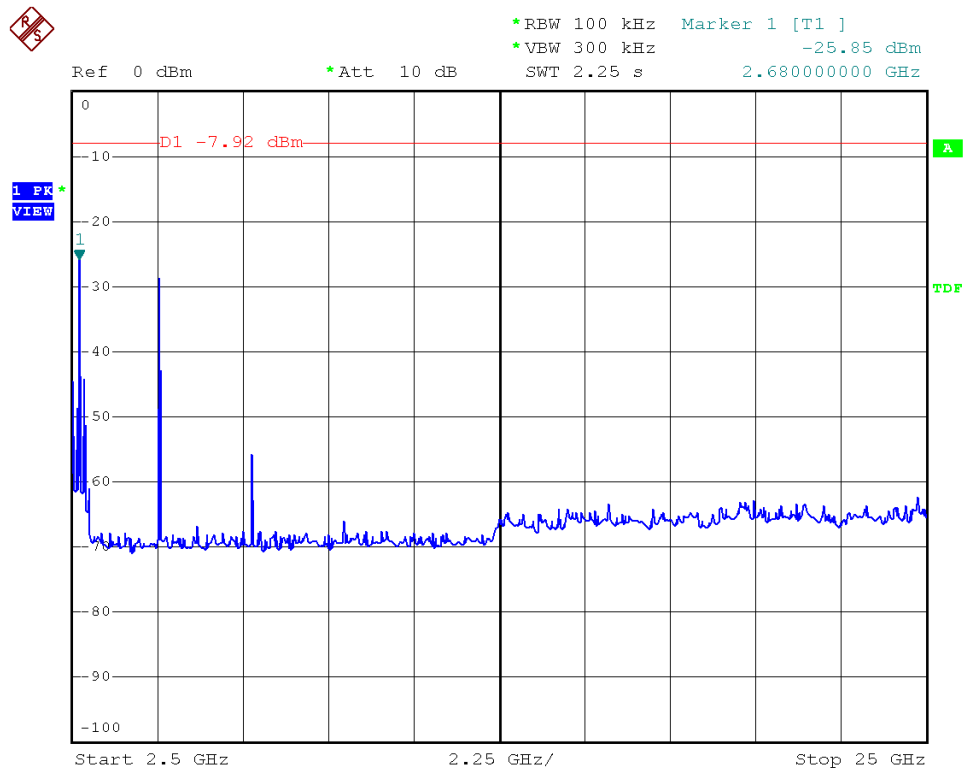
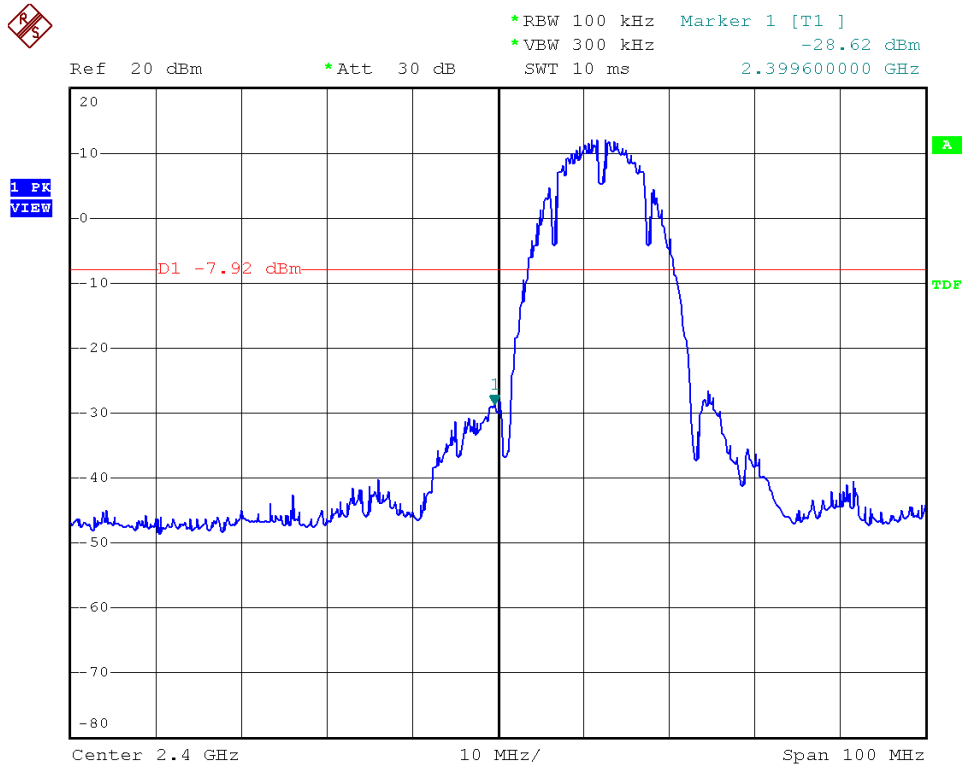
Atmospheric pressure: 1019 hPa

Humidity: 45%

Modulation Standard	Channel	Frequency (MHz)	maximum value in frequency (MHz)		maximum value (dBm)	
			ANT R	ANT L	ANT R	ANT L
802.11a (54Mbps)	149	5745	5724.20	5725.00	-41.19	-32.22
	165	5825	5850.00	5850.00	-43.10	-41.10
802.11an HT20 (130Mbps)	149	5745	5725.00	5724.80	-40.72	-27.45
	165	5825	5850.00	5850.00	-43.53	-36.44
802.11an HT40 (270Mbps)	151	5755	5723.80	5723.00	-40.98	-22.50
	159	5795	5864.40	5850.40	-45.05	-40.95

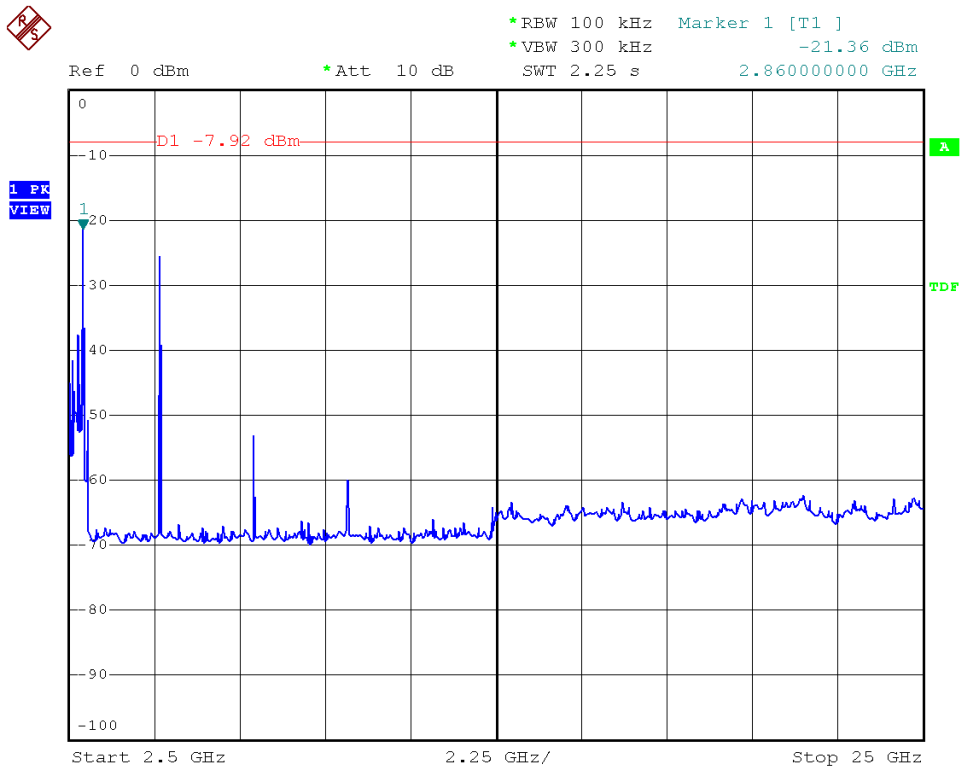
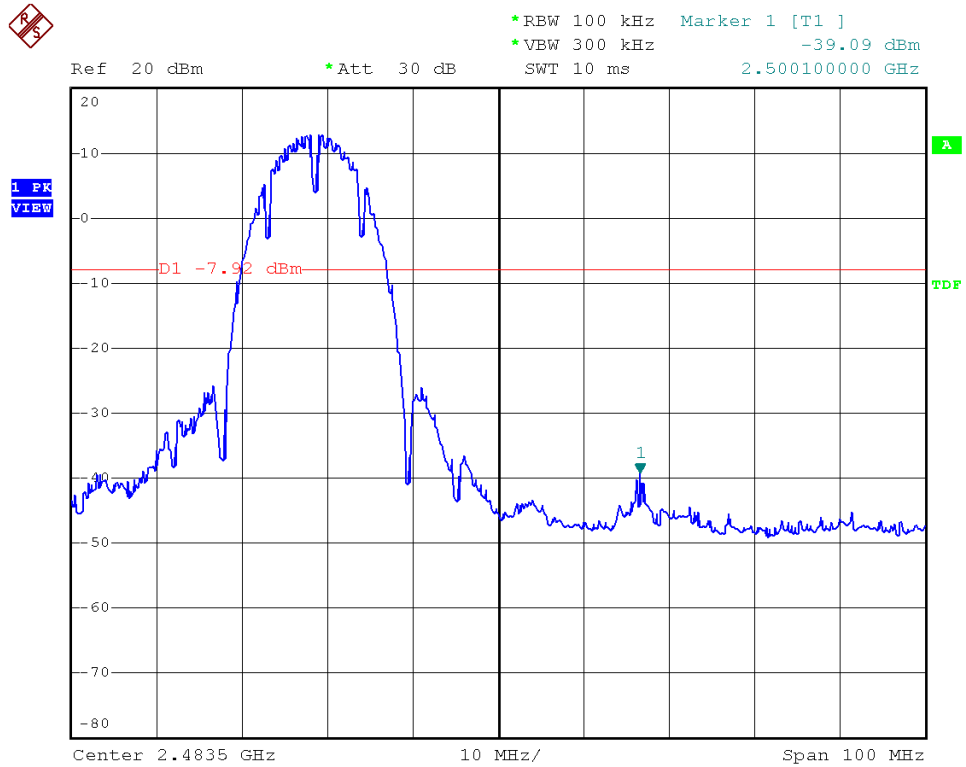


Modulation Standard: 802.11b (11Mbps), ANT R  
Channel: 01





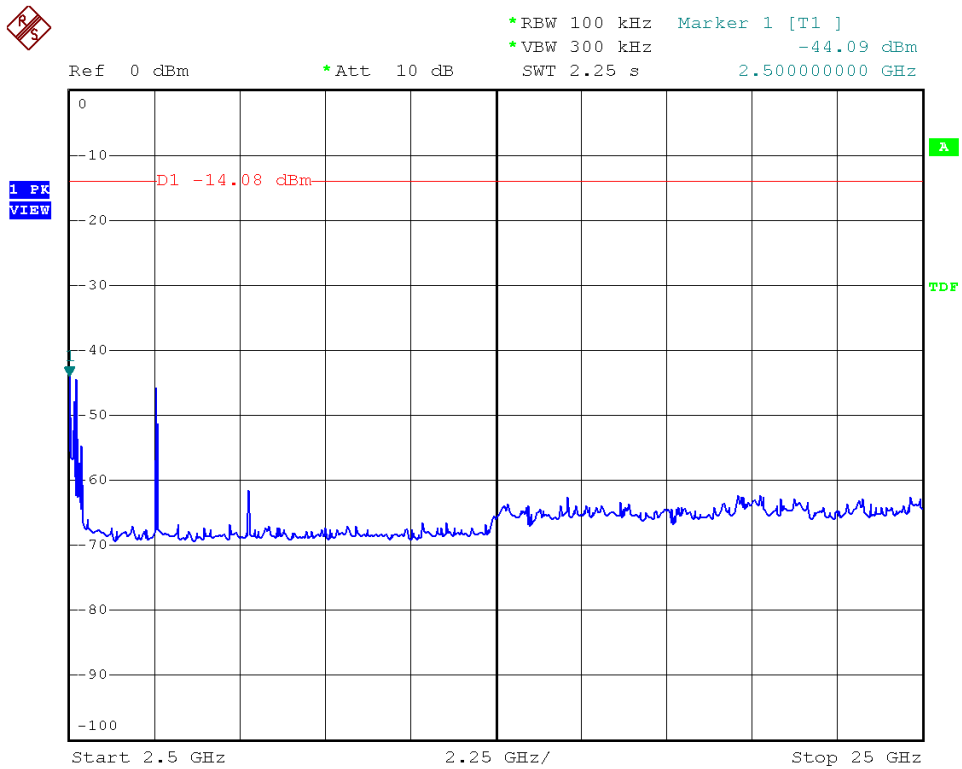
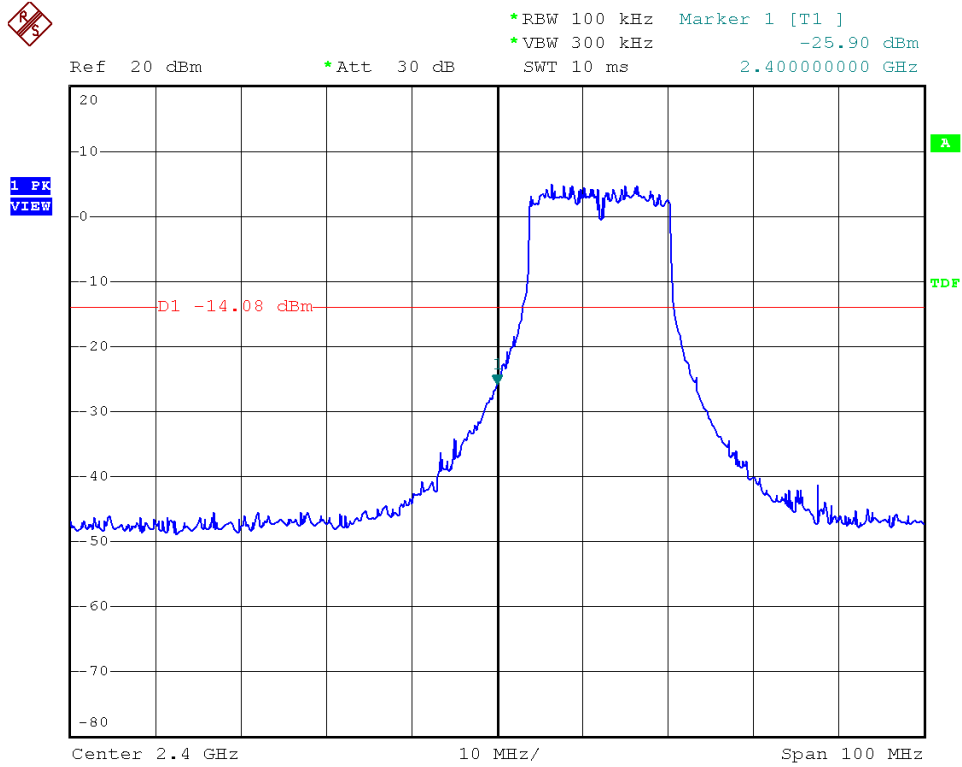
Modulation Standard: 802.11b (11Mbps), ANT R  
Channel: 11







Modulation Standard: 802.11g (54Mbps), ANT R  
Channel: 01

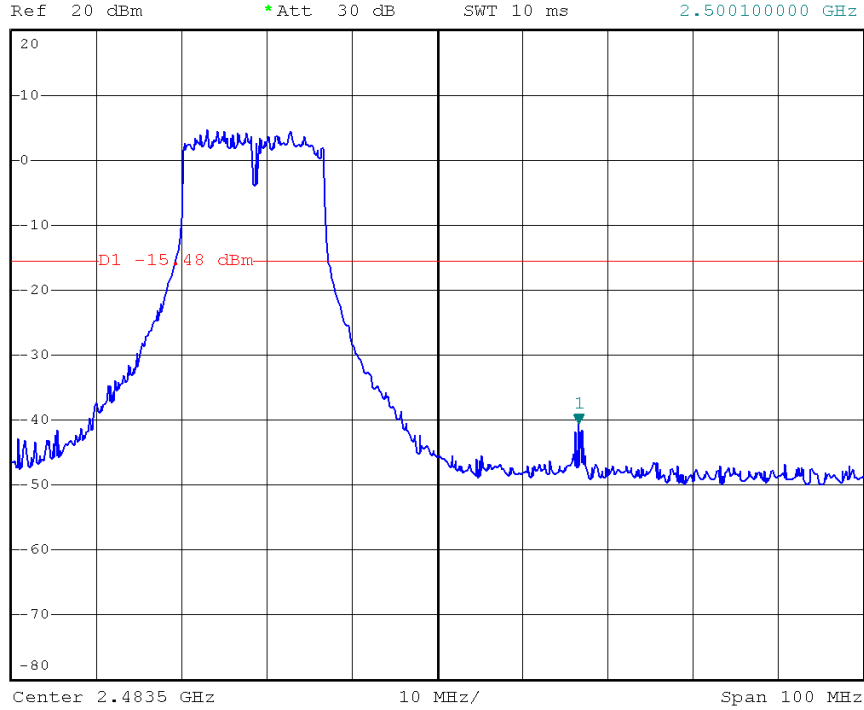




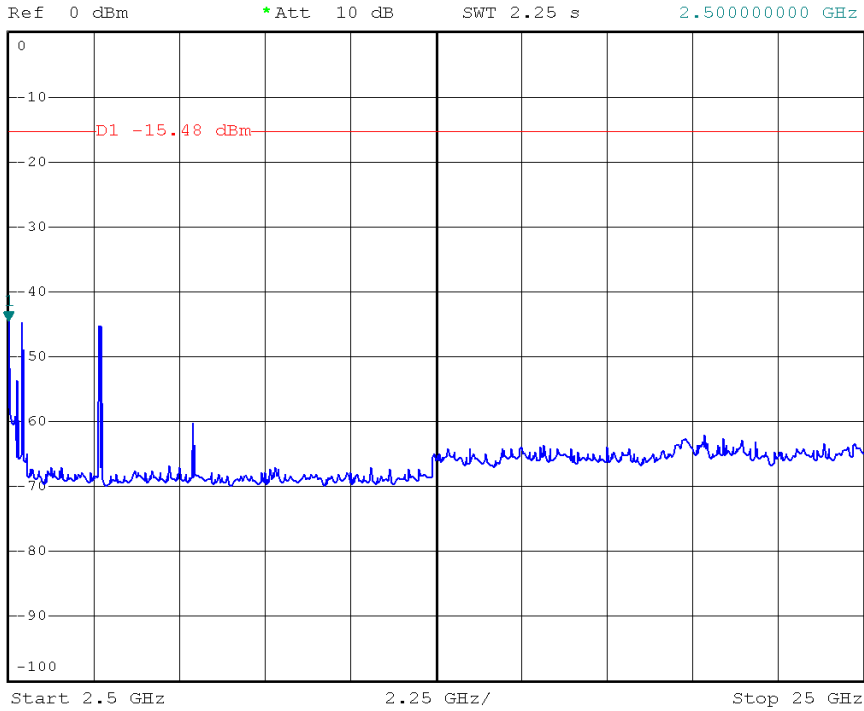
Modulation Standard: 802.11g (54Mbps), ANT R  
Channel: 11



\*RBW 100 kHz Marker 1 [T1 ]  
\*VBW 300 kHz -40.55 dBm  
SWT 10 ms 2.500100000 GHz

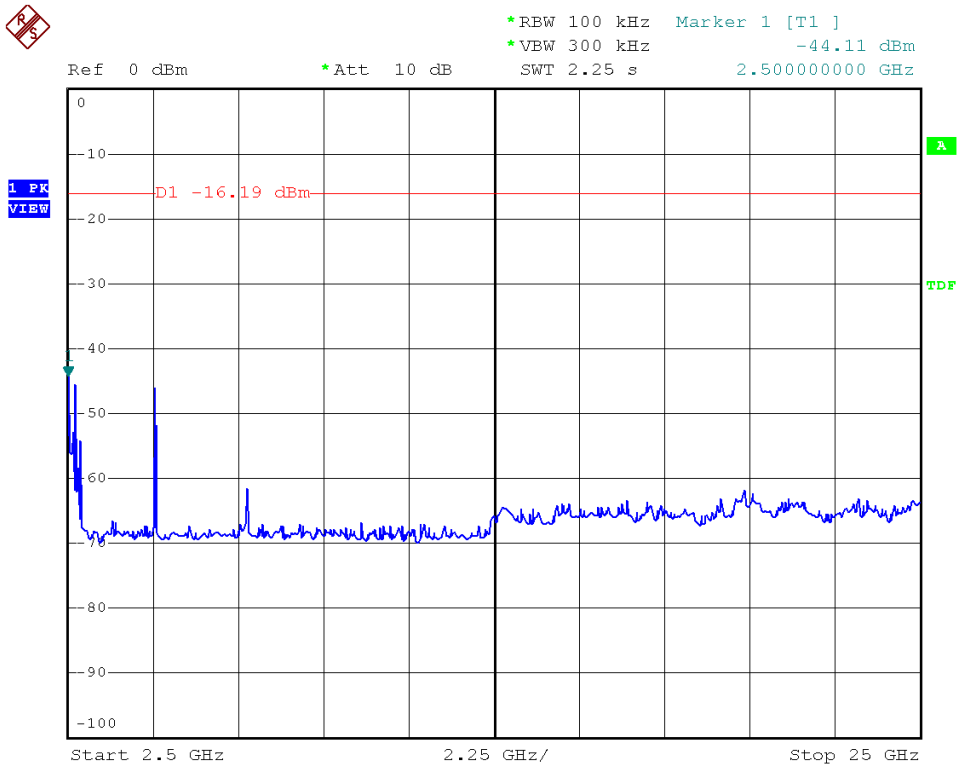
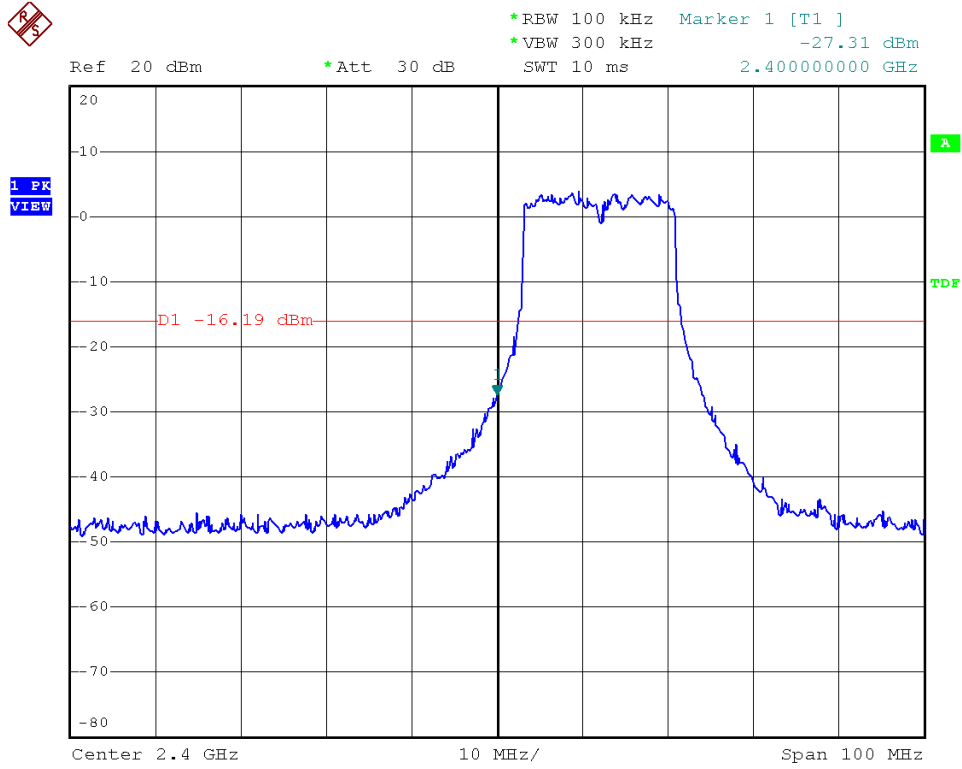


\*RBW 100 kHz Marker 1 [T1 ]  
\*VBW 300 kHz -44.37 dBm  
SWT 2.25 s 2.500000000 GHz



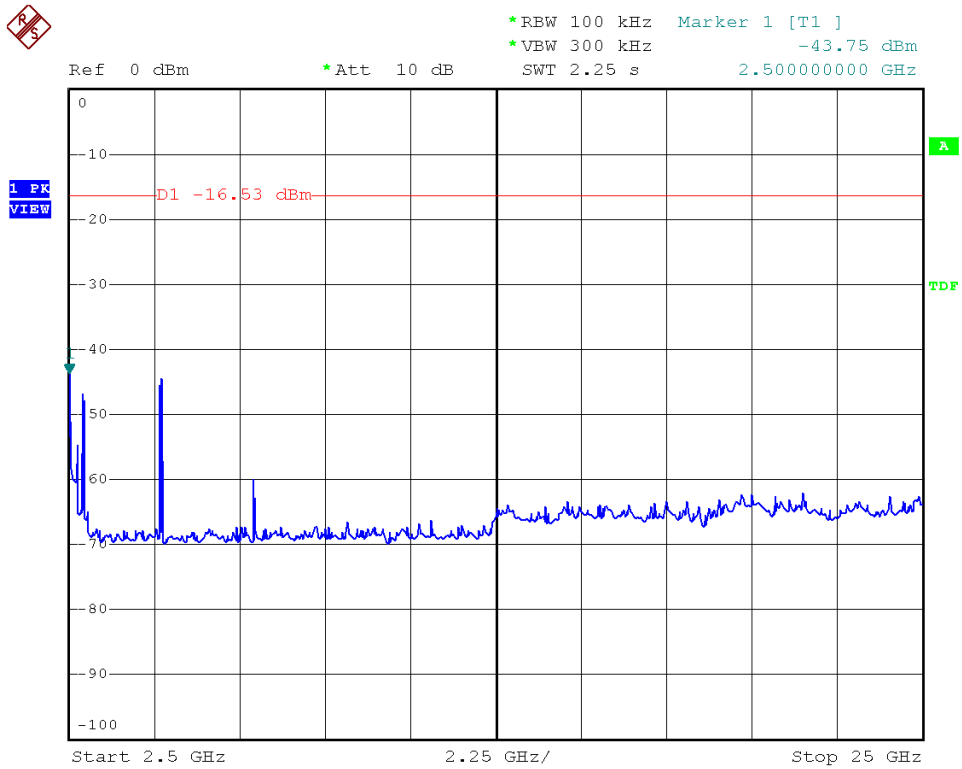
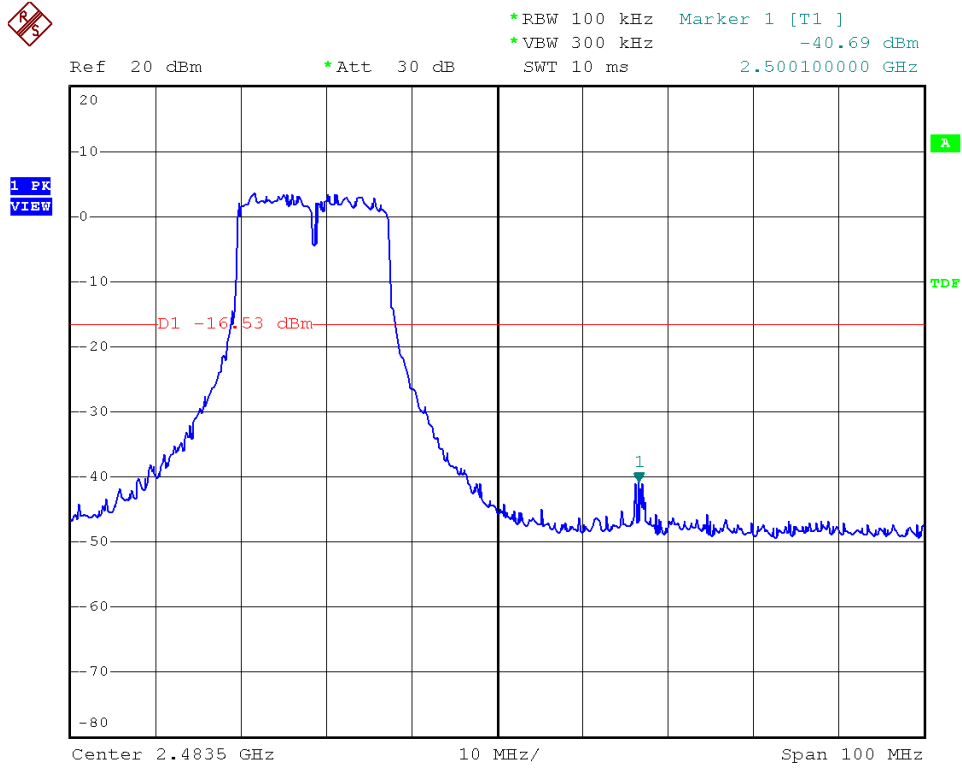


Modulation Standard: 802.11n HT20 (130Mbps), ANT R  
Channel: 01



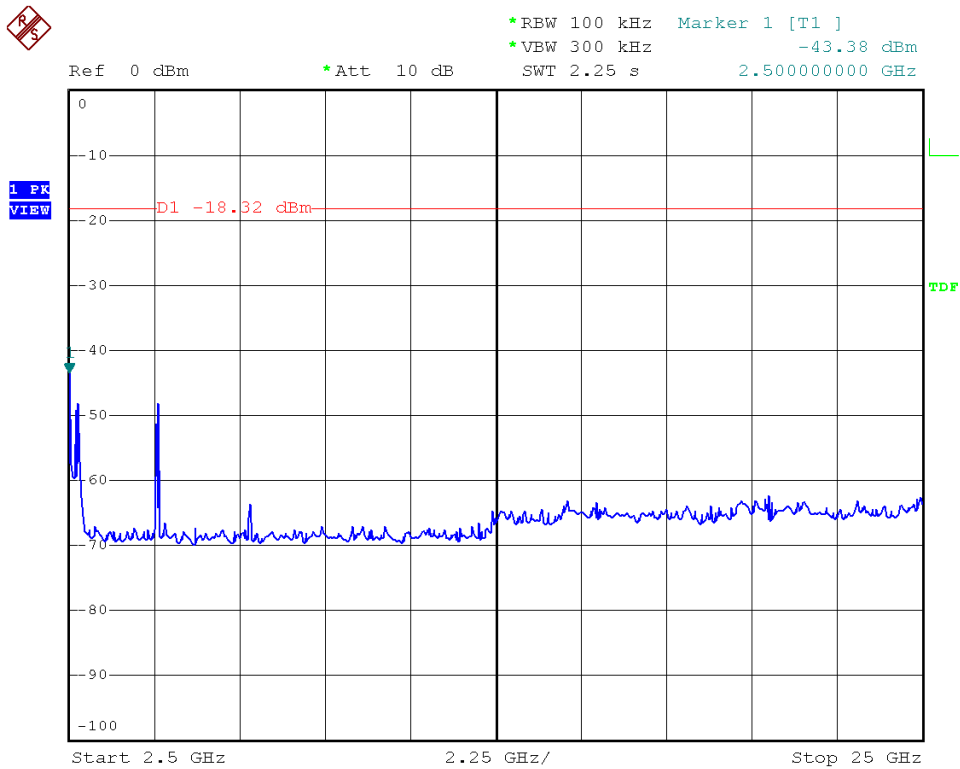
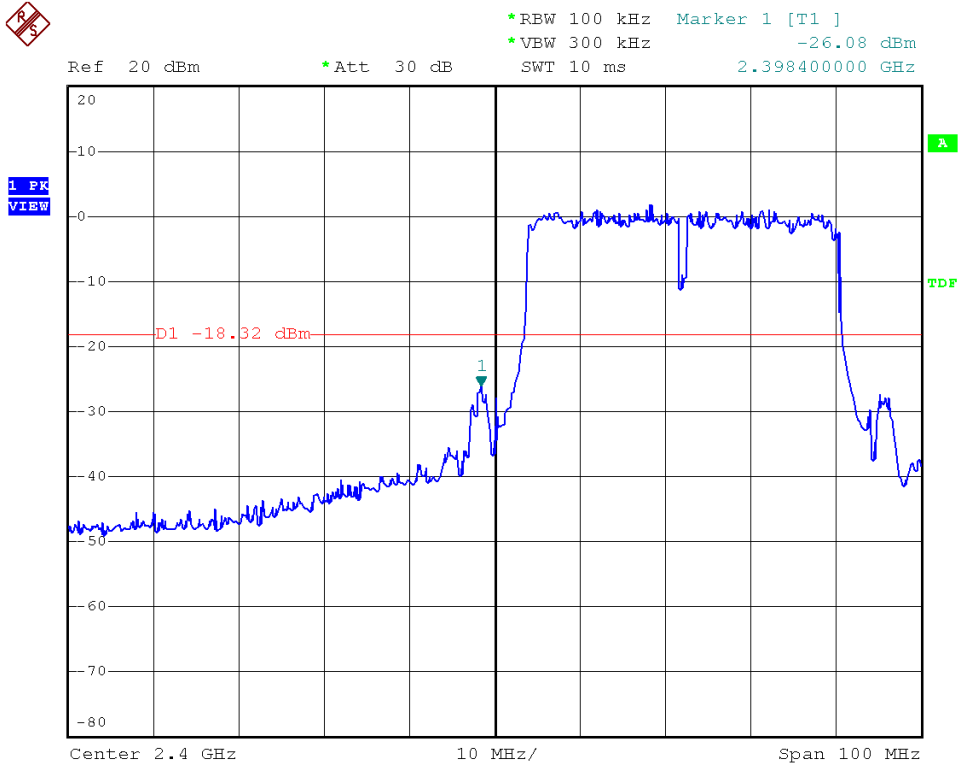


Modulation Standard: 802.11n HT20 (130Mbps), ANT R  
Channel: 11



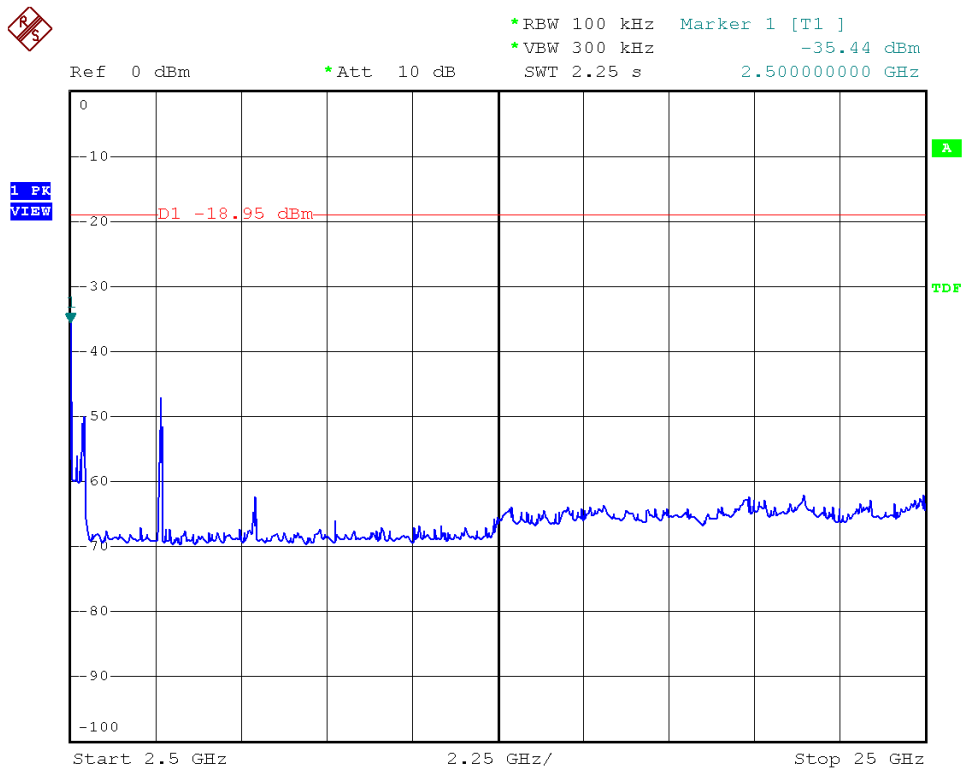
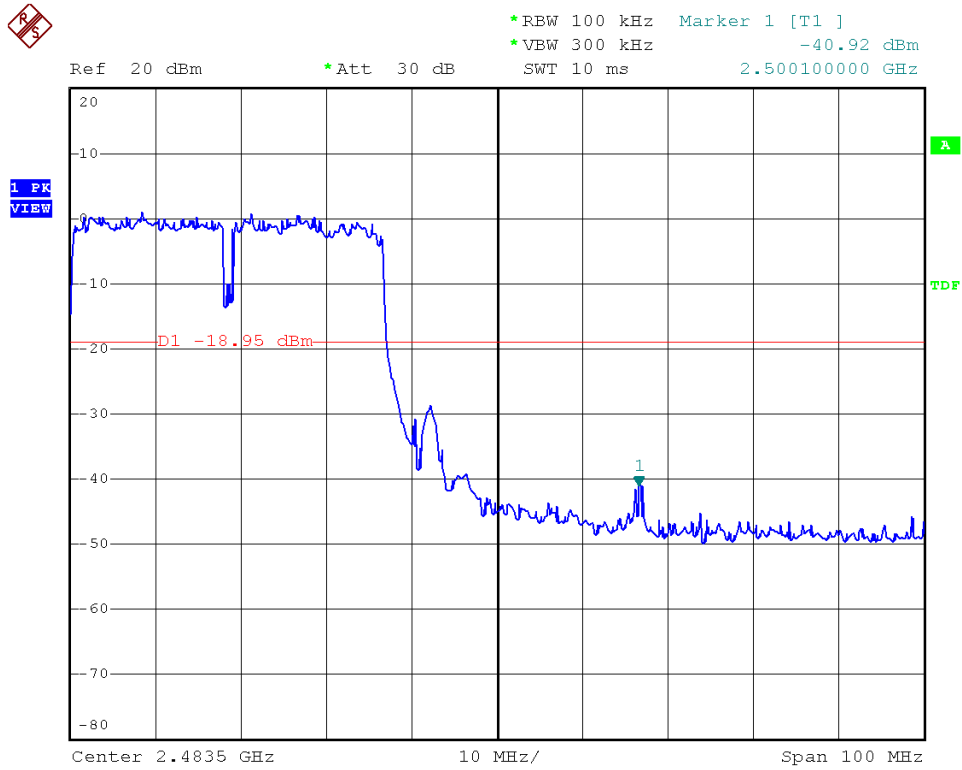


Modulation Standard: 802.11n HT40 (270Mbps), ANT R  
Channel: 03



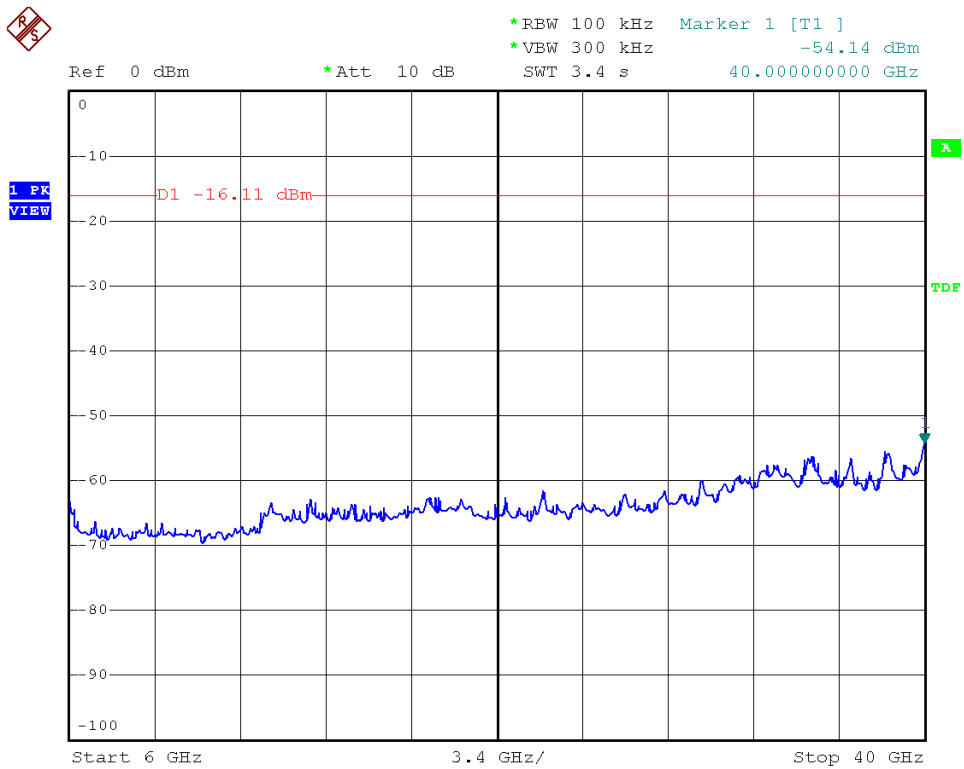
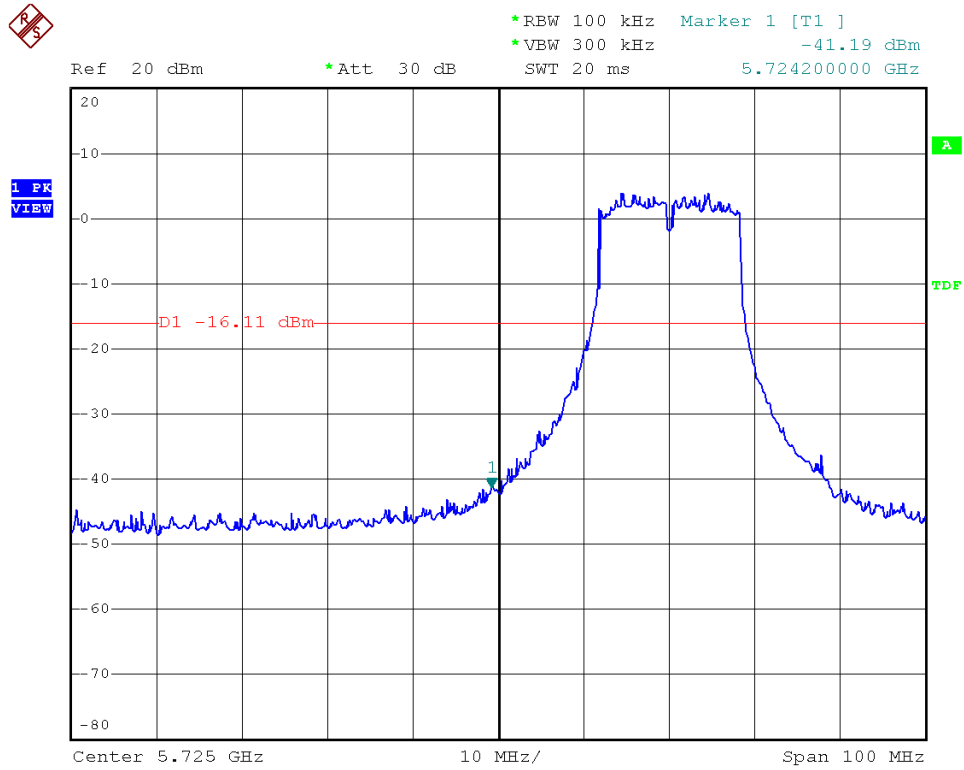


Modulation Standard: 802.11n HT40 (270Mbps), ANT R  
Channel: 09



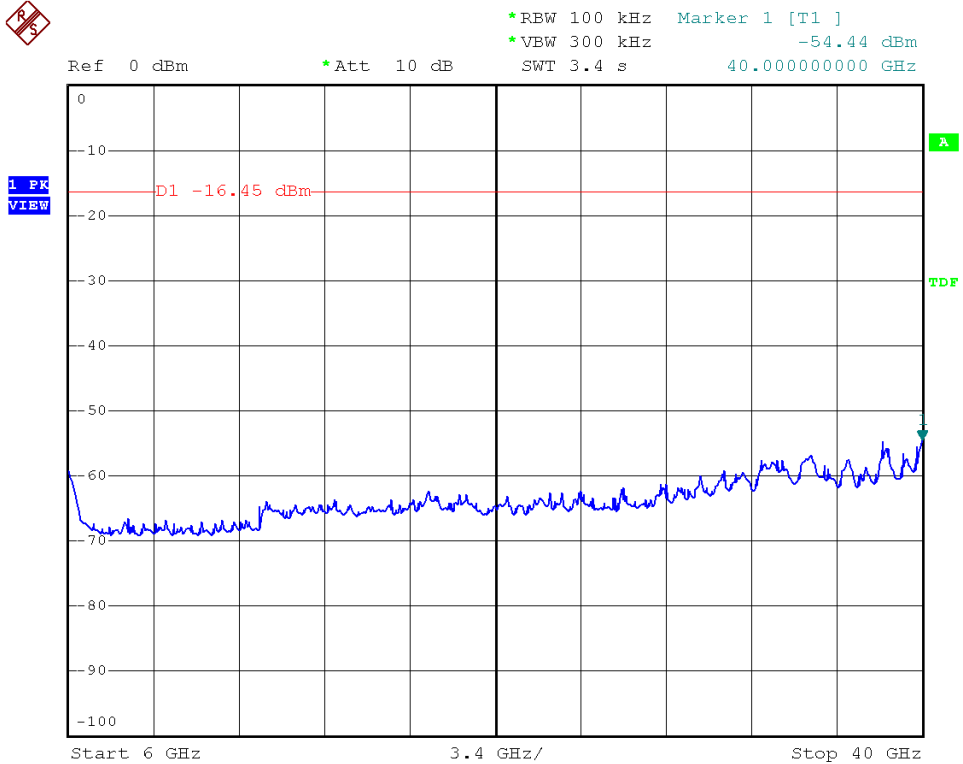
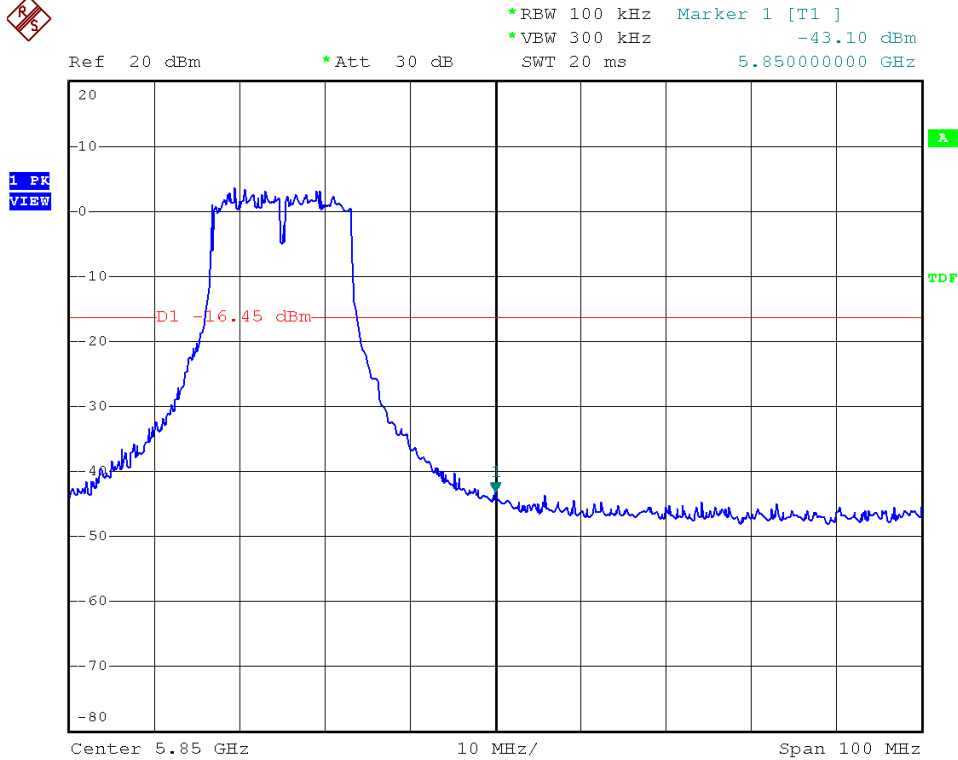


Modulation Standard: 802.11a (54Mbps), ANT R  
Channel: 149





Modulation Standard: 802.11a (54Mbps), ANT R  
Channel: 165

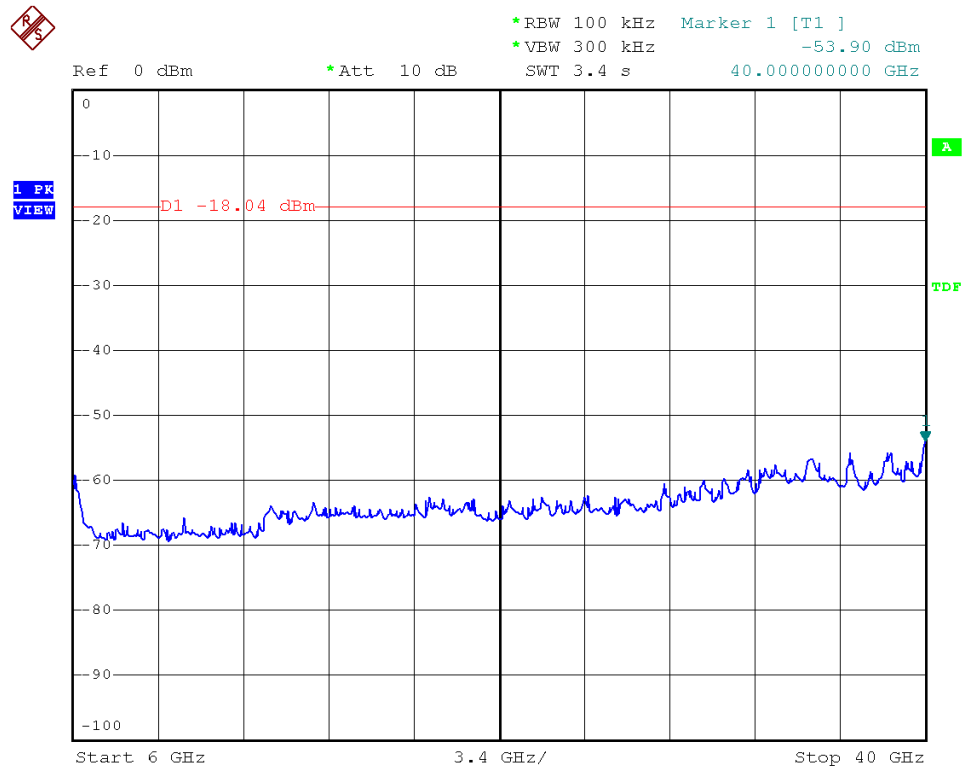
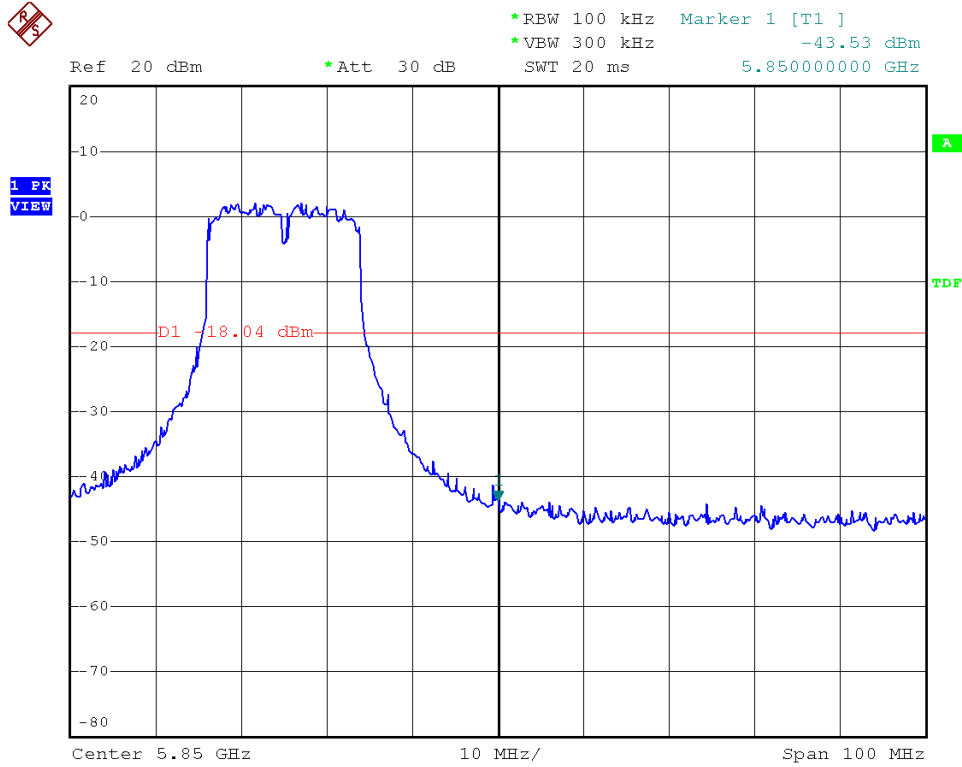






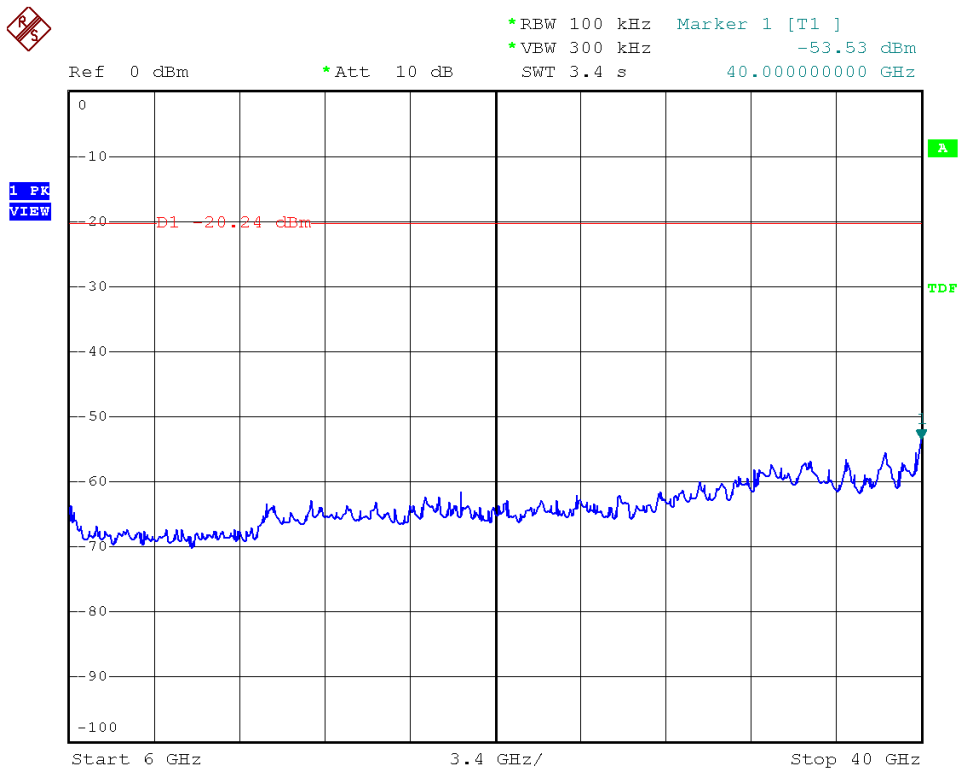
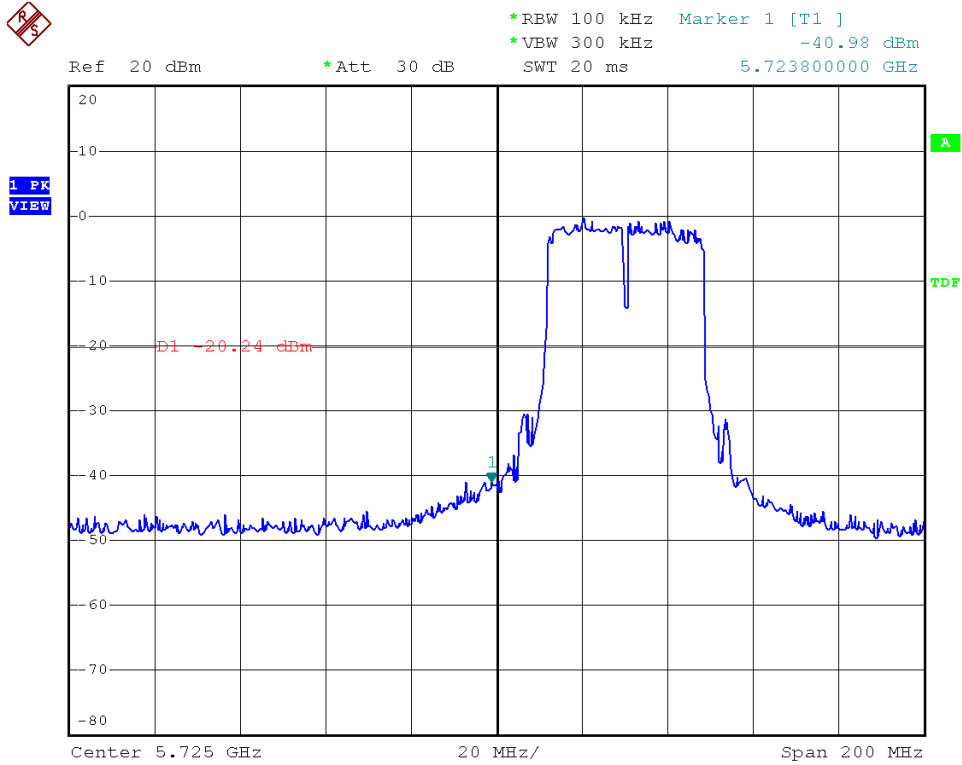


Modulation Standard: 802.11an HT20 (130Mbps), ANT R  
Channel: 165





Modulation Standard: 802.11an HT40 (270Mbps), ANT R  
Channel: 151

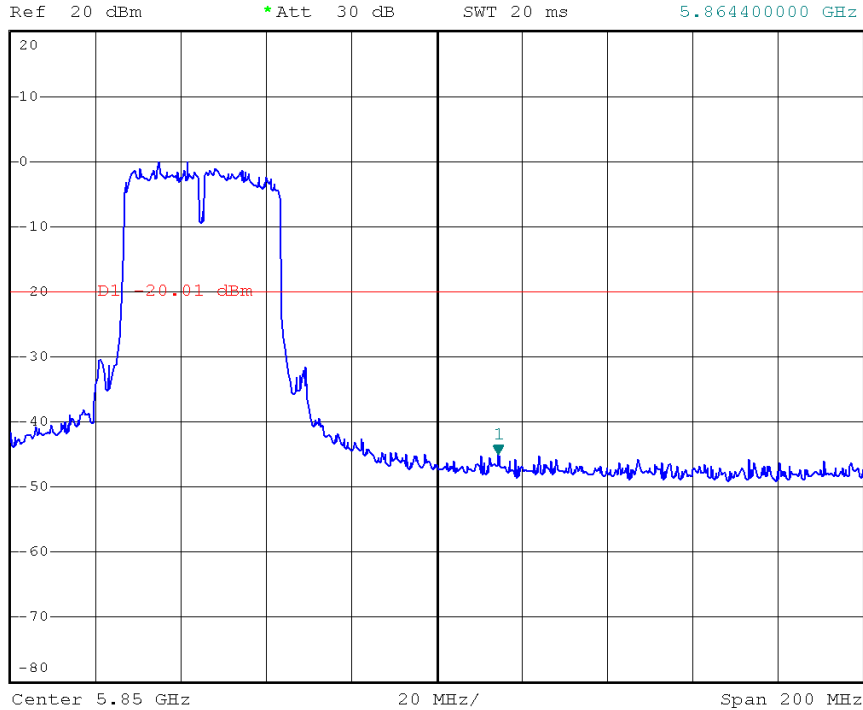




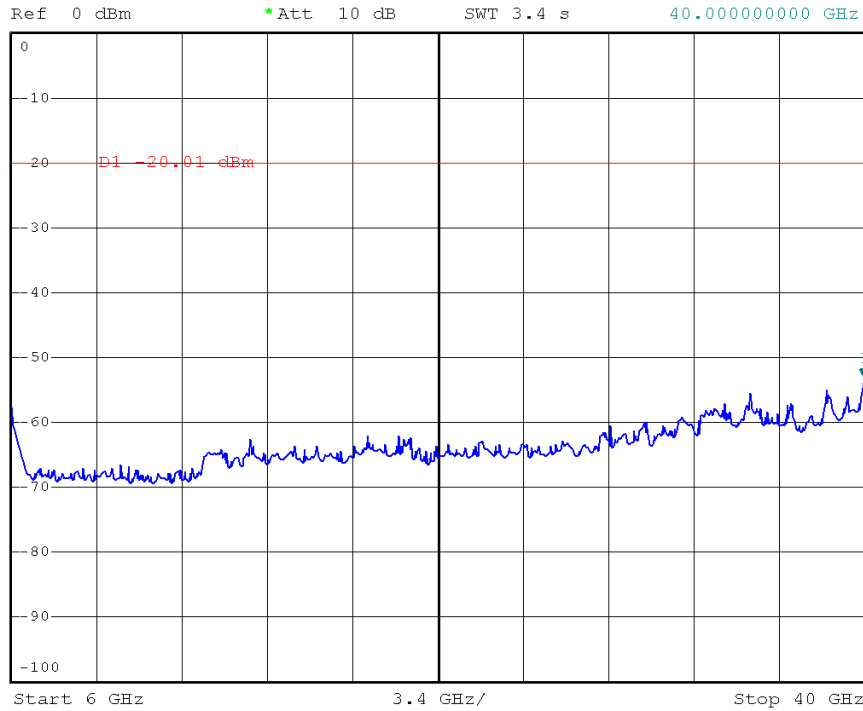
Modulation Standard: 802.11an HT40 (270Mbps), ANT R  
Channel: 159



\*RBW 100 kHz Marker 1 [T1 ]  
\*VBW 300 kHz -45.05 dBm  
SWT 20 ms 5.864400000 GHz



\*RBW 100 kHz Marker 1 [T1 ]  
\*VBW 300 kHz -53.13 dBm  
SWT 3.4 s 40.000000000 GHz

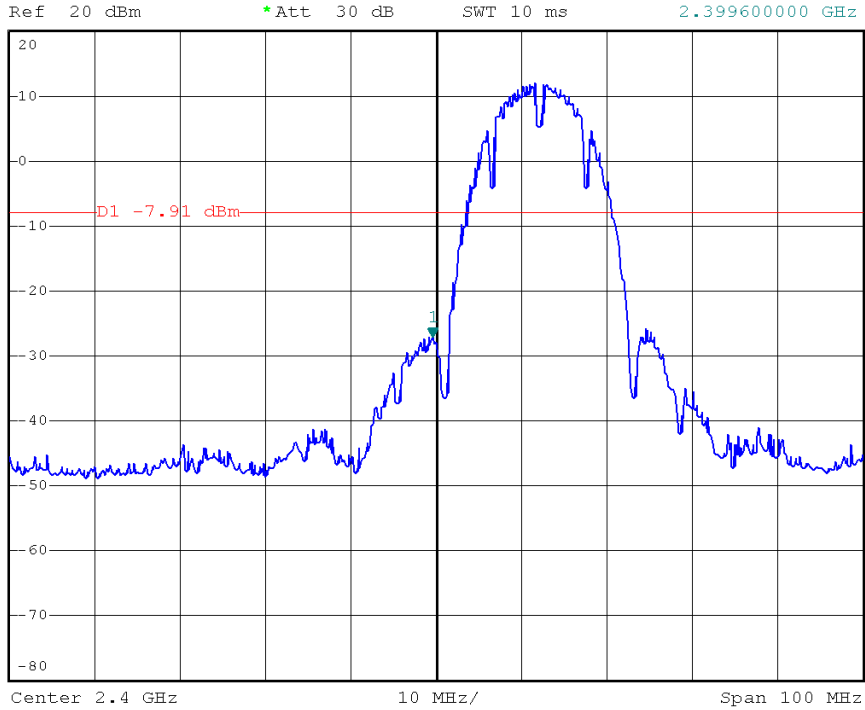




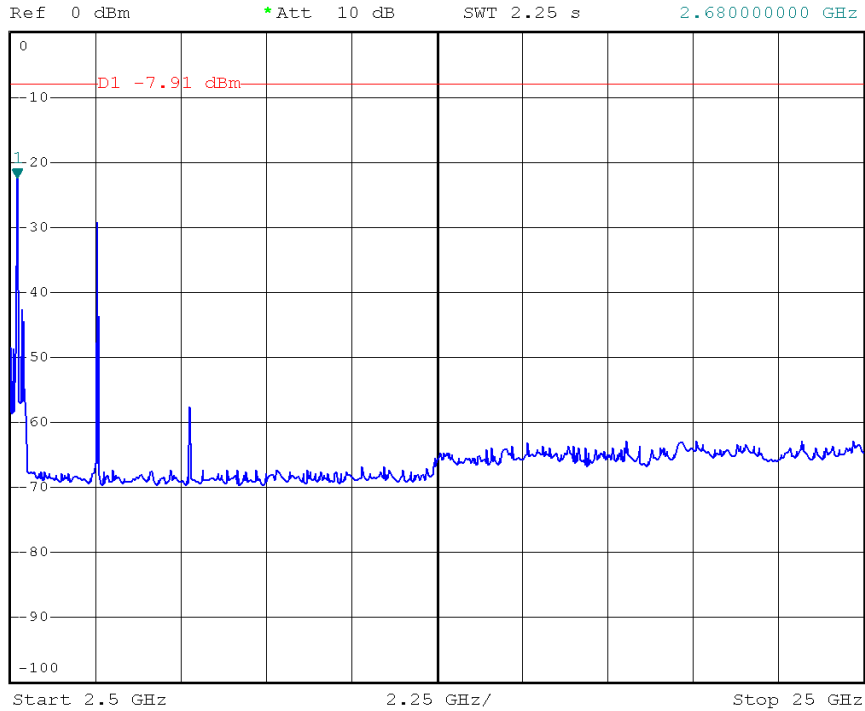
Modulation Standard: 802.11b (11Mbps), ANT L  
Channel: 01



\*RBW 100 kHz Marker 1 [T1 ]  
\*VBW 300 kHz -27.01 dBm  
SWT 10 ms 2.399600000 GHz



\*RBW 100 kHz Marker 1 [T1 ]  
\*VBW 300 kHz -22.55 dBm  
SWT 2.25 s 2.680000000 GHz

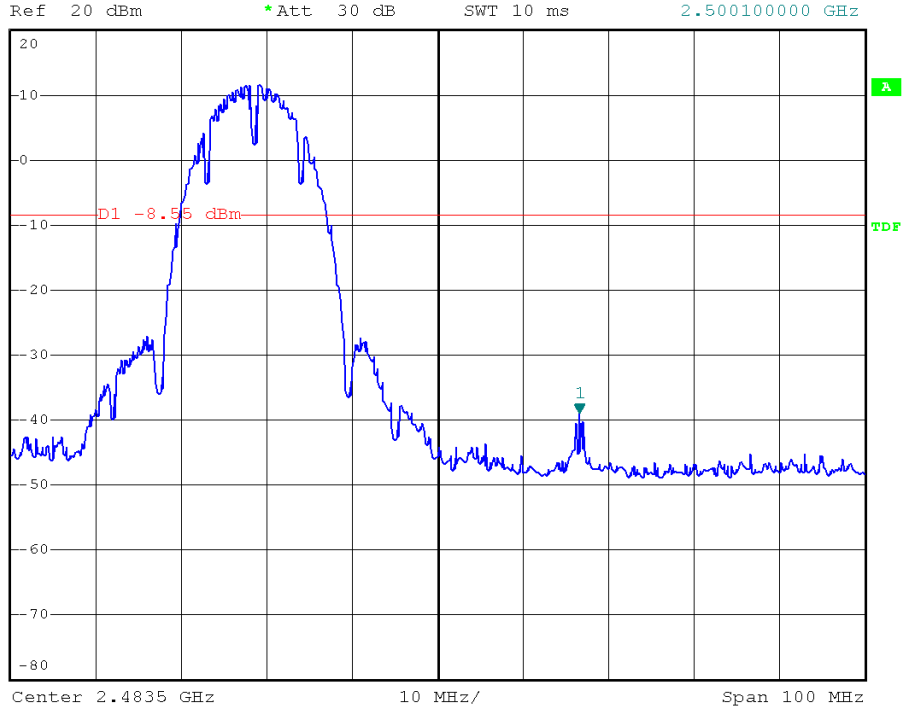




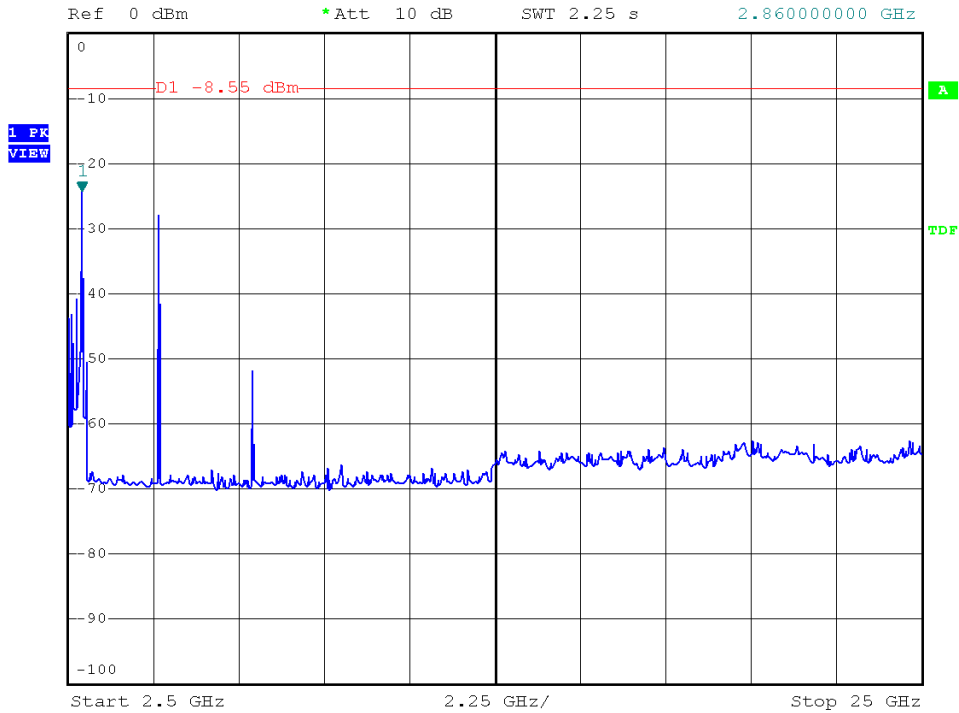
Modulation Standard: 802.11b (11Mbps), ANT L  
Channel: 11



\*RBW 100 kHz Marker 1 [T1 ]  
\*VBW 300 kHz -38.94 dBm  
SWT 10 ms 2.500100000 GHz

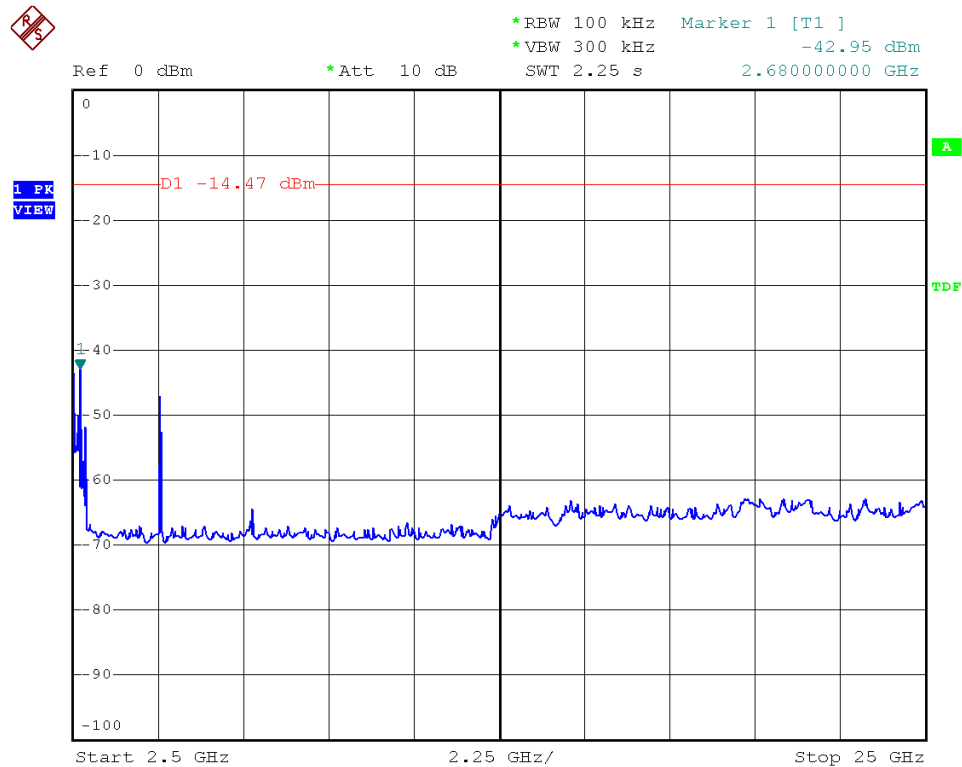
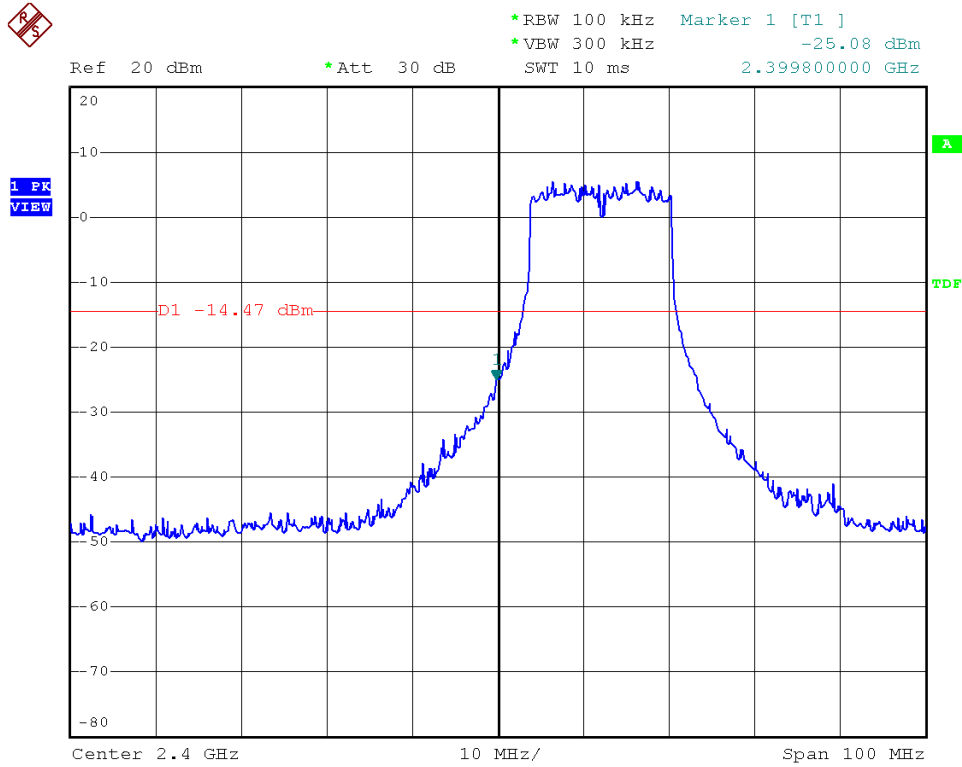


\*RBW 100 kHz Marker 1 [T1 ]  
\*VBW 300 kHz -24.30 dBm  
SWT 2.25 s 2.860000000 GHz



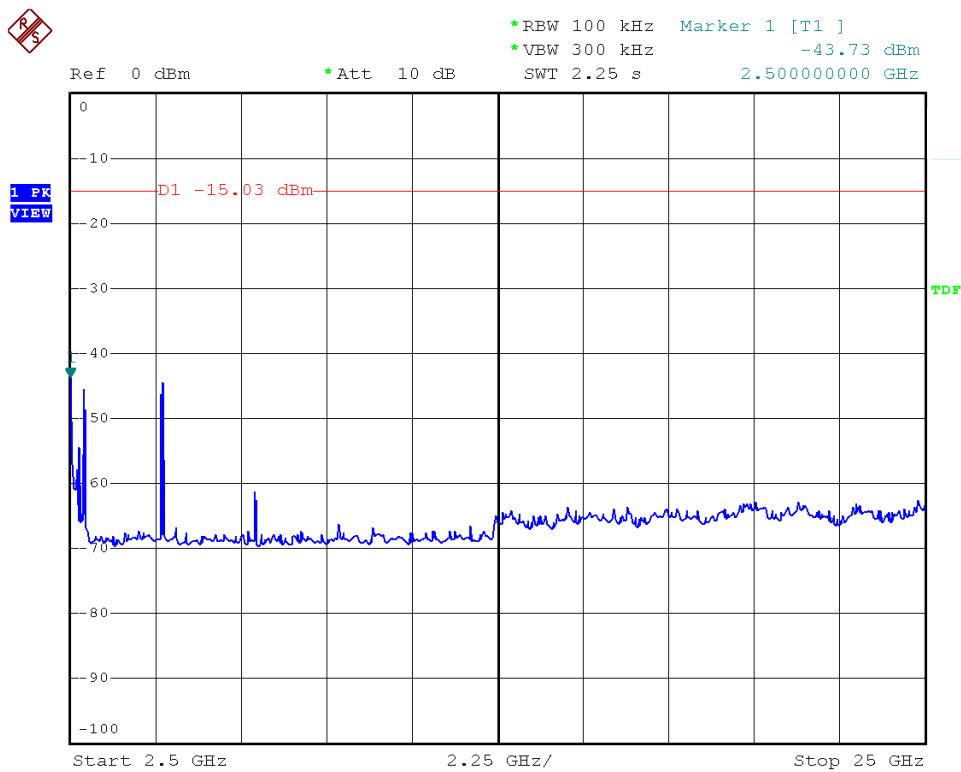
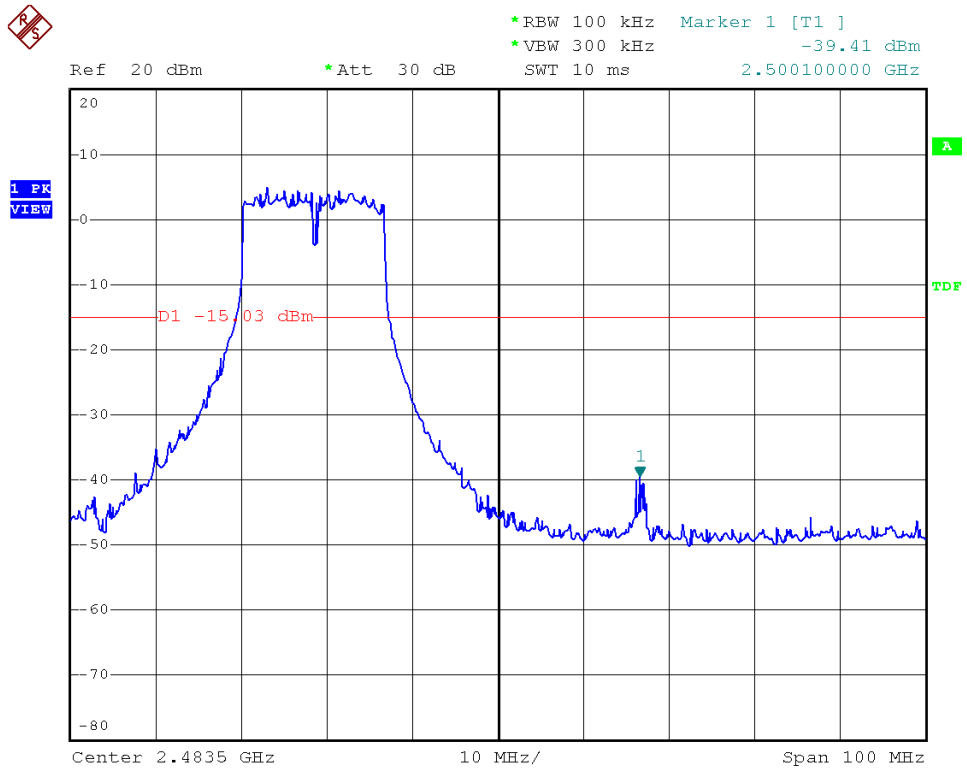


Modulation Standard: 802.11g (54Mbps), ANT L  
Channel: 01





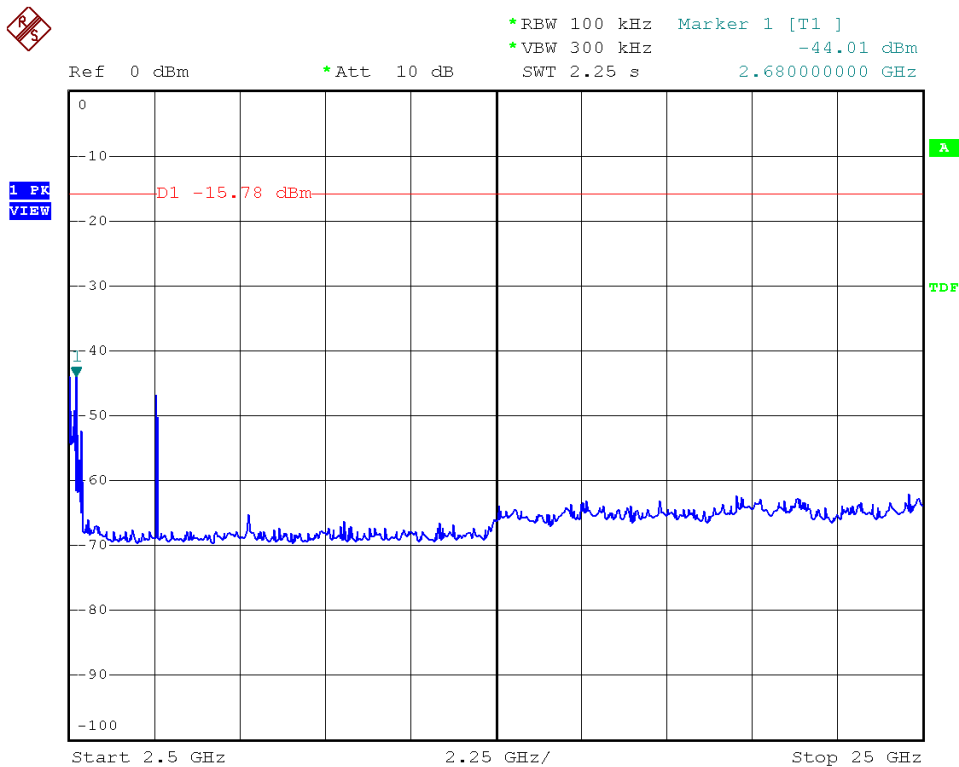
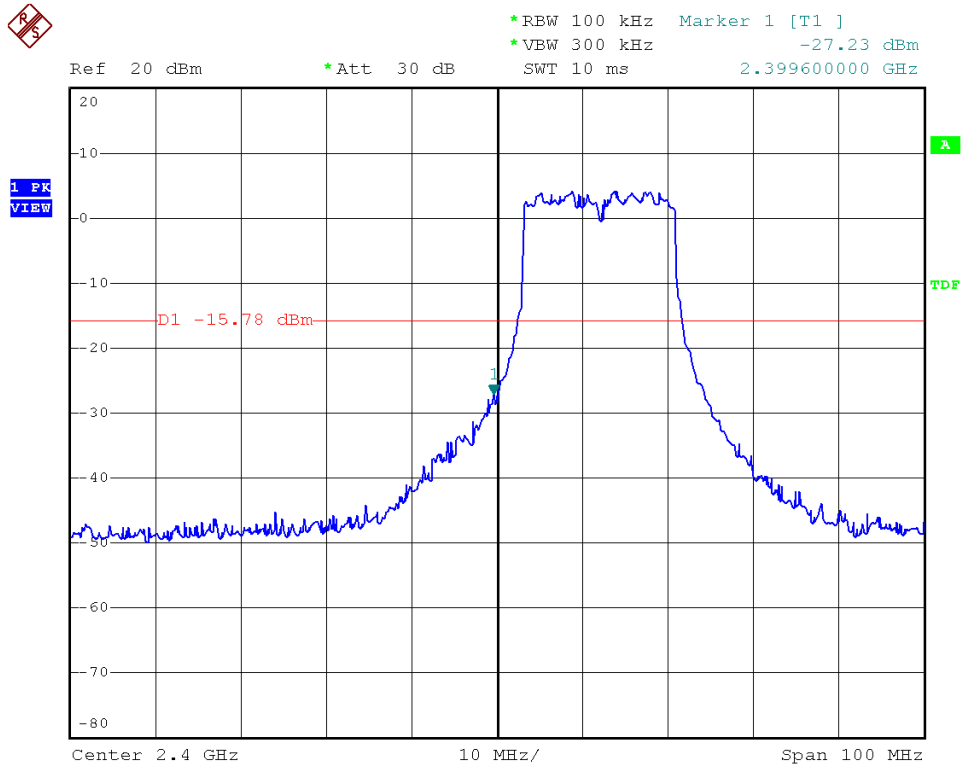
Modulation Standard: 802.11g (54Mbps), ANT L  
Channel: 11





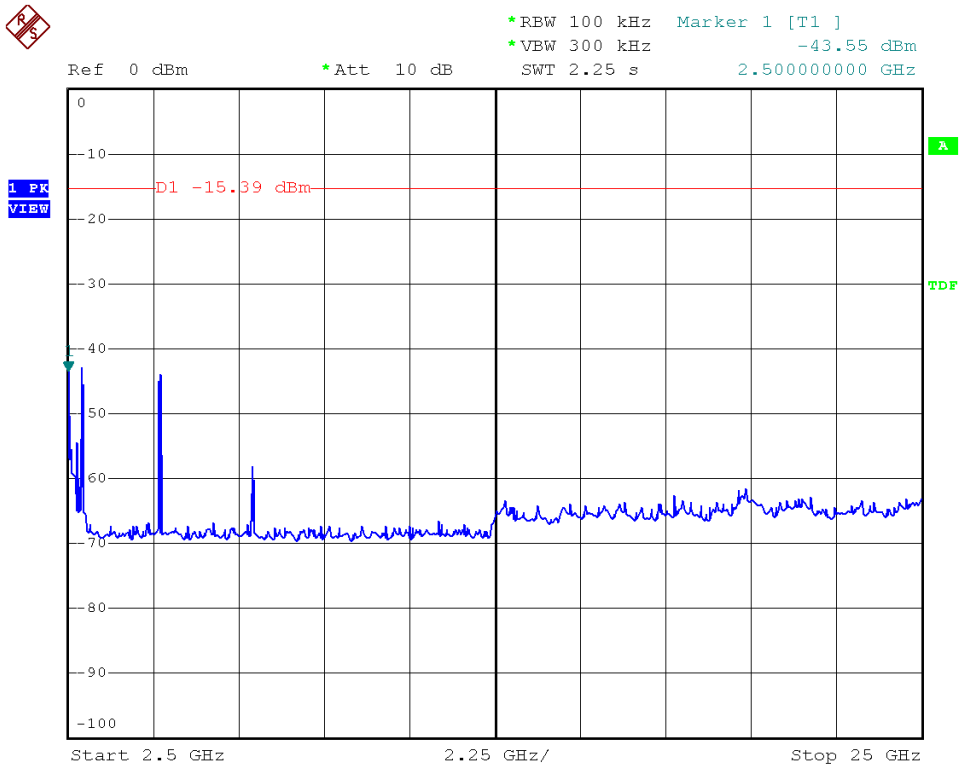
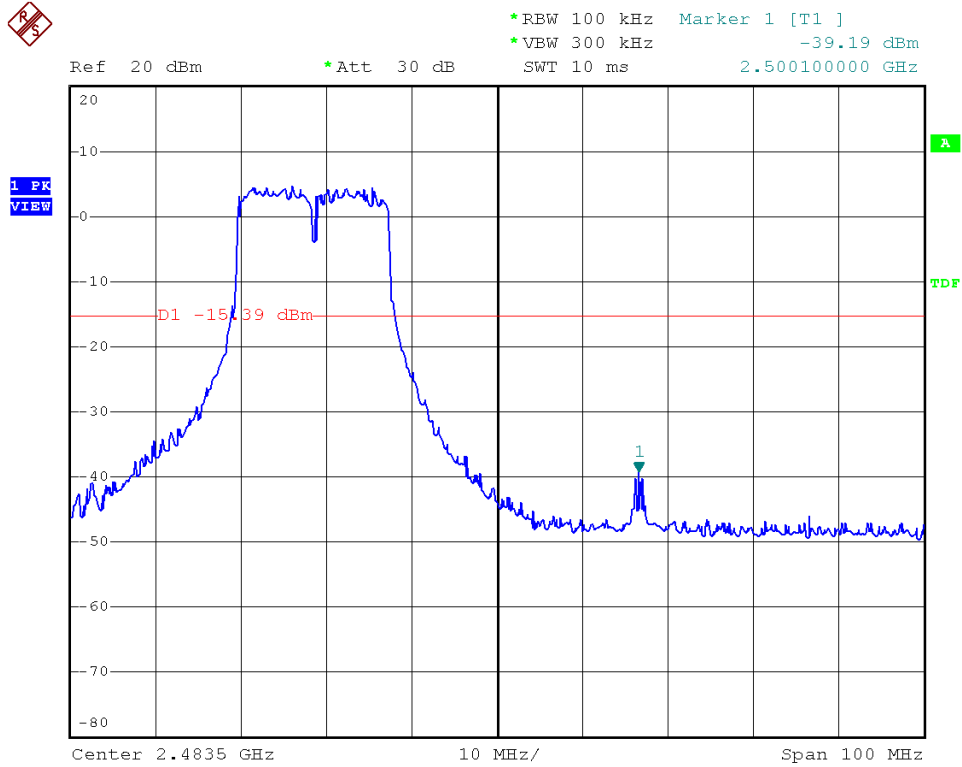


Modulation Standard: 802.11n HT20 (130Mbps), ANT L  
Channel: 01



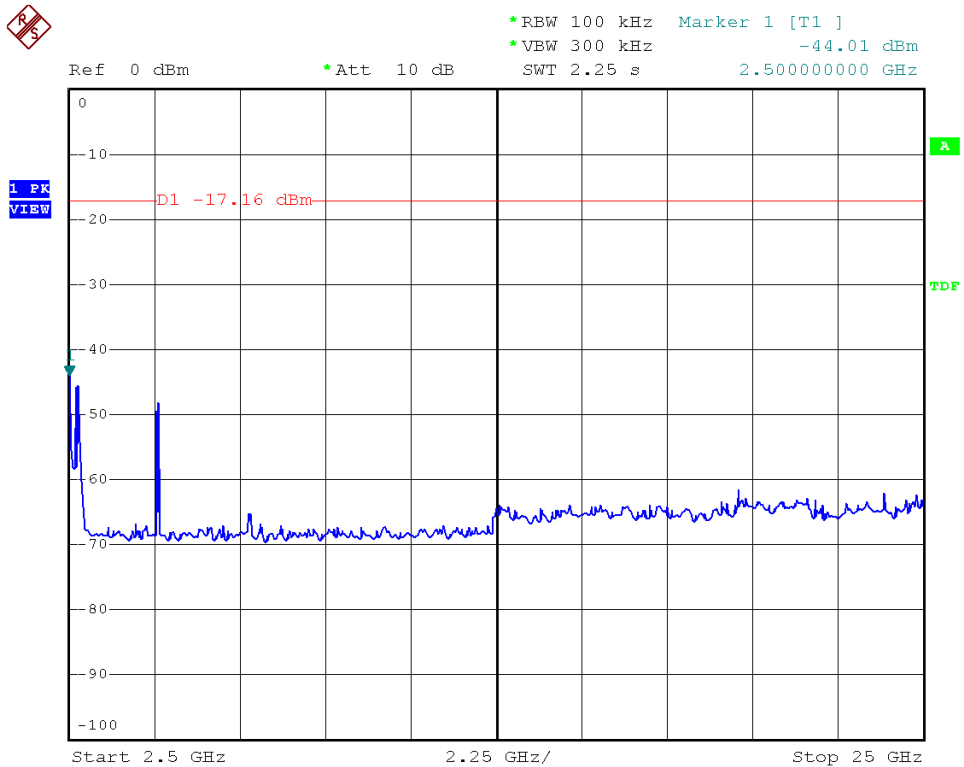
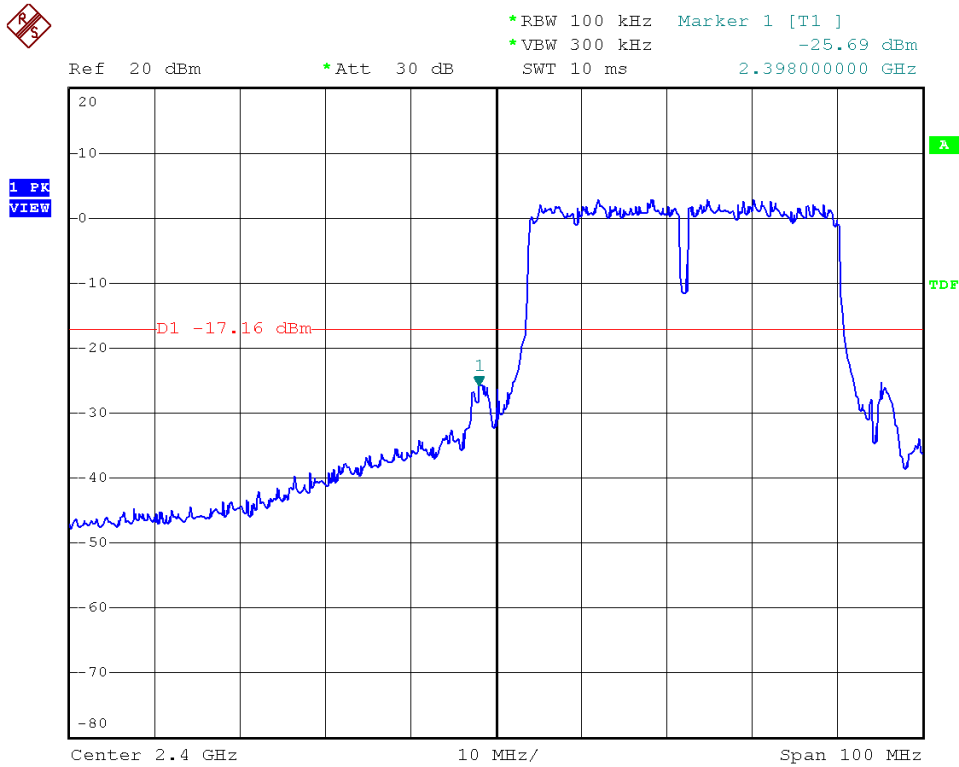


Modulation Standard: 802.11n HT20 (130Mbps), ANT L  
Channel: 11



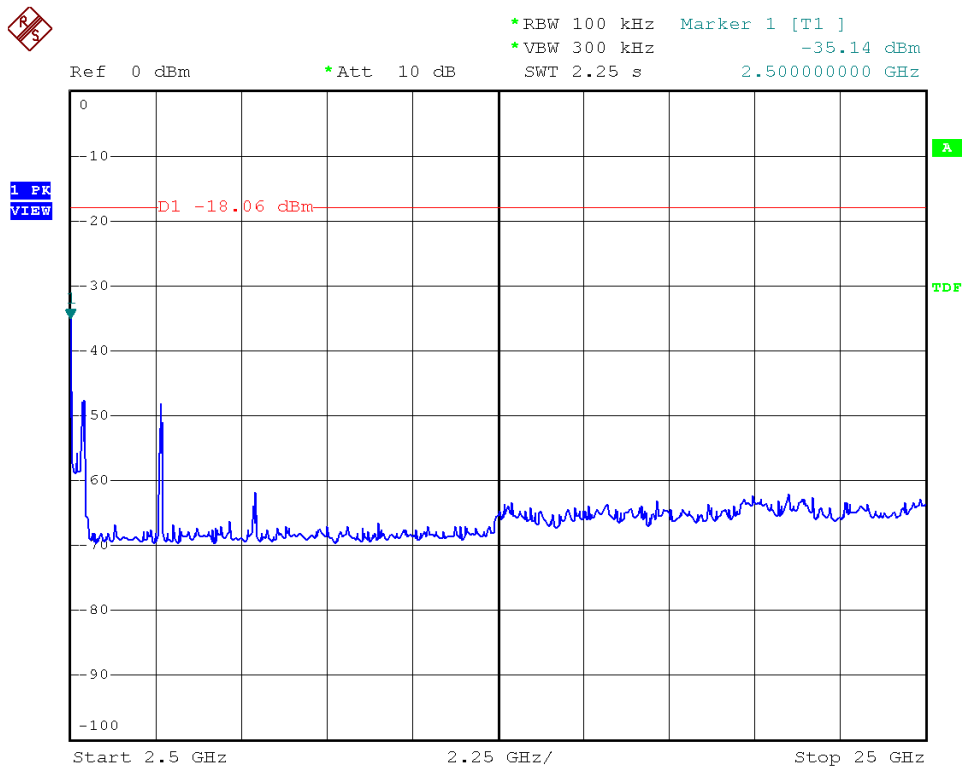
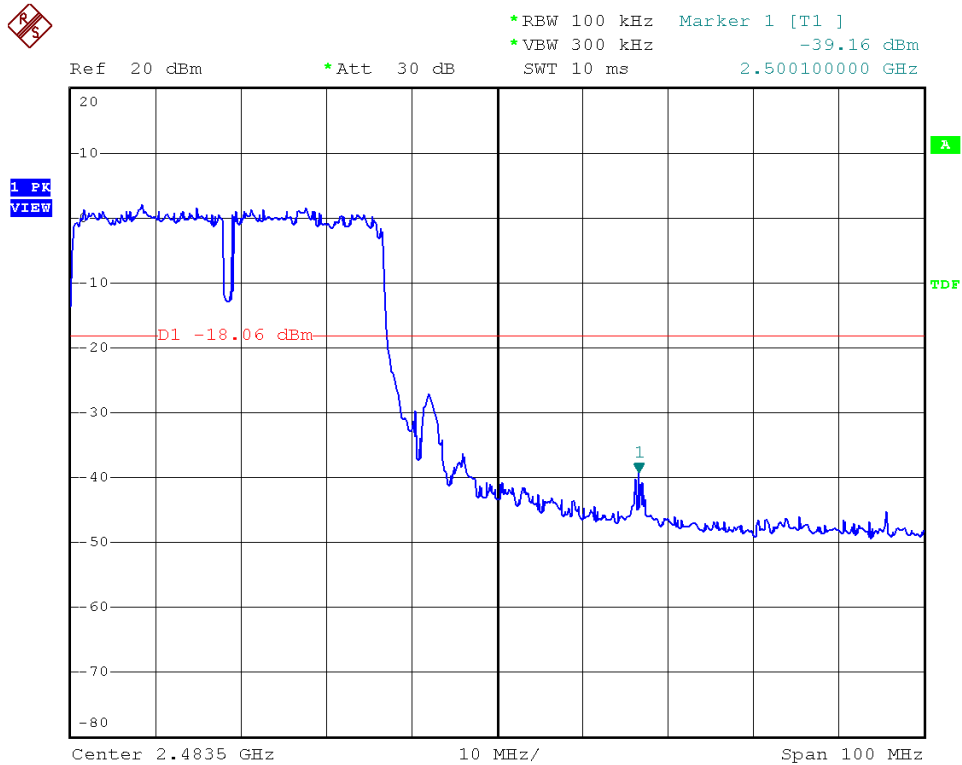


Modulation Standard: 802.11n HT40 (270Mbps), ANT L  
Channel: 03



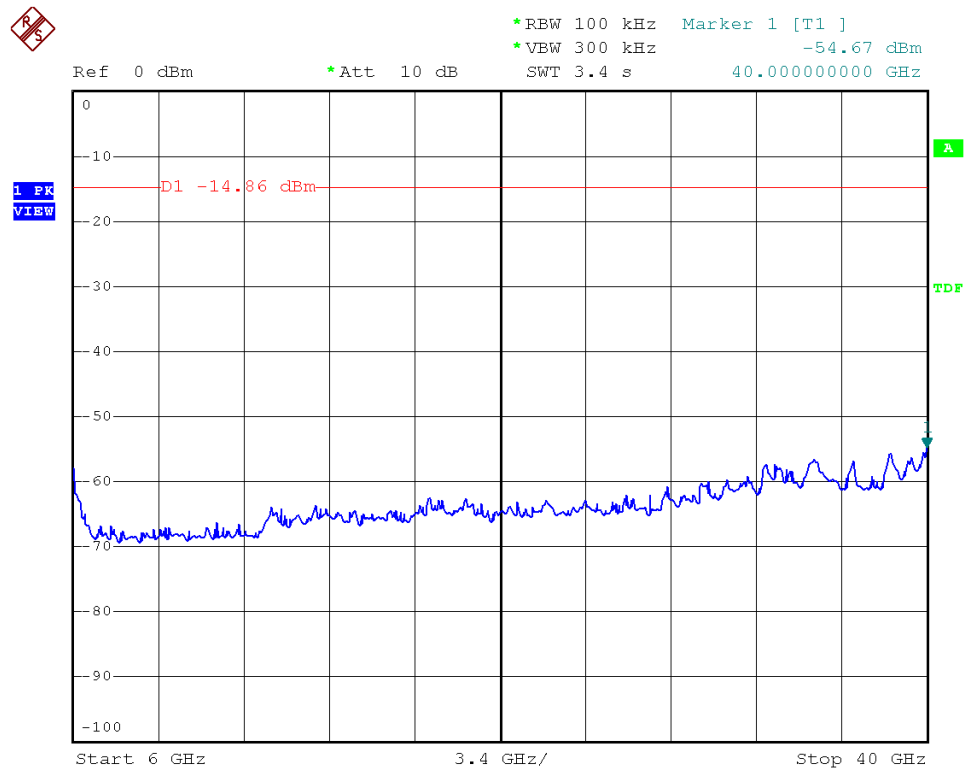
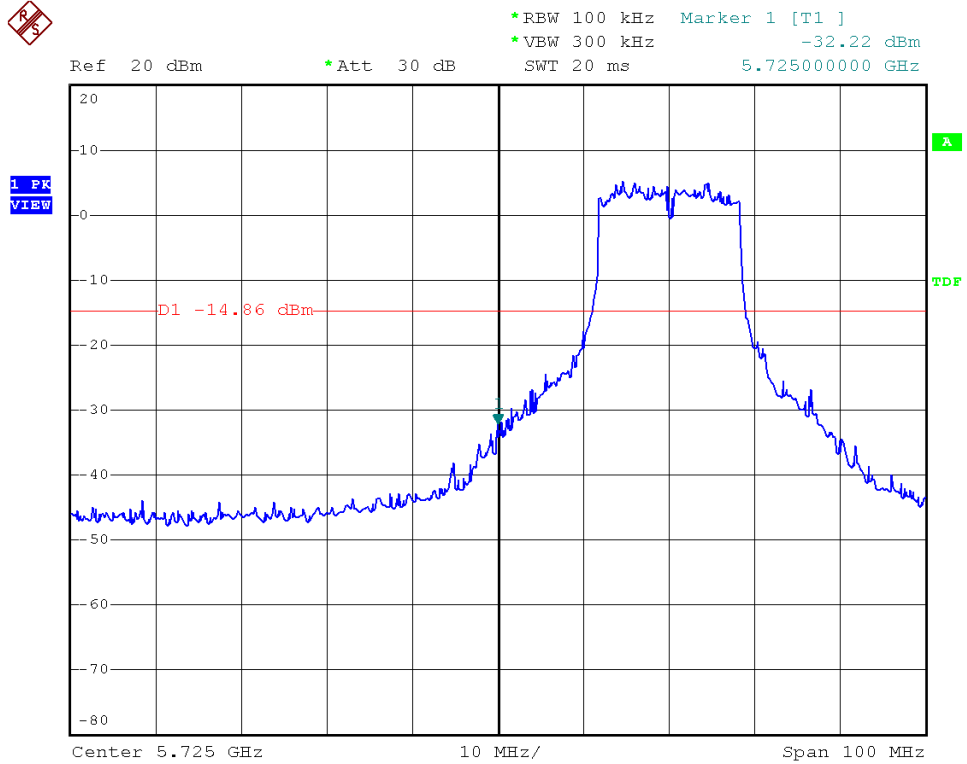


Modulation Standard: 802.11n HT40 (270Mbps), ANT L  
Channel: 09



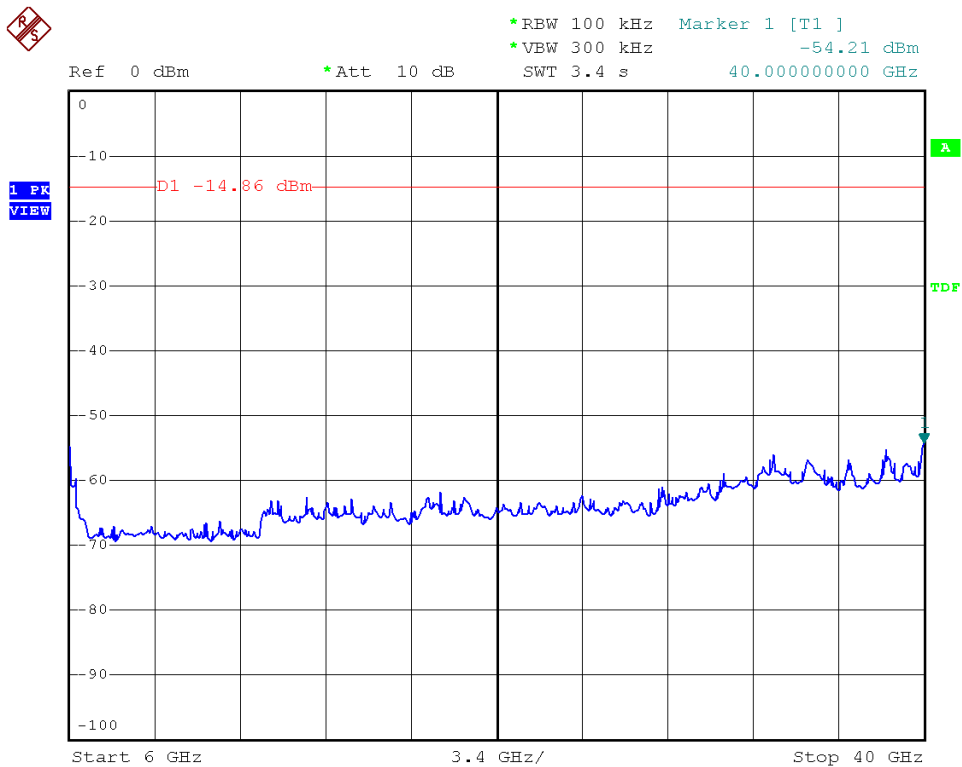
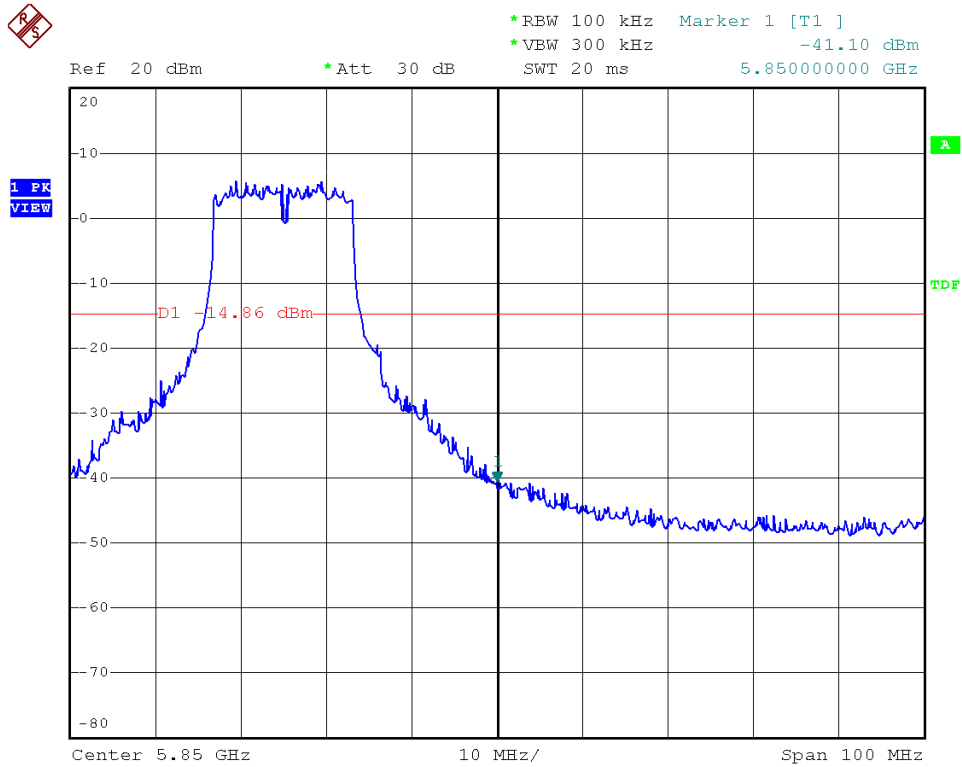


Modulation Standard: 802.11a (54Mbps), ANT L  
Channel: 149



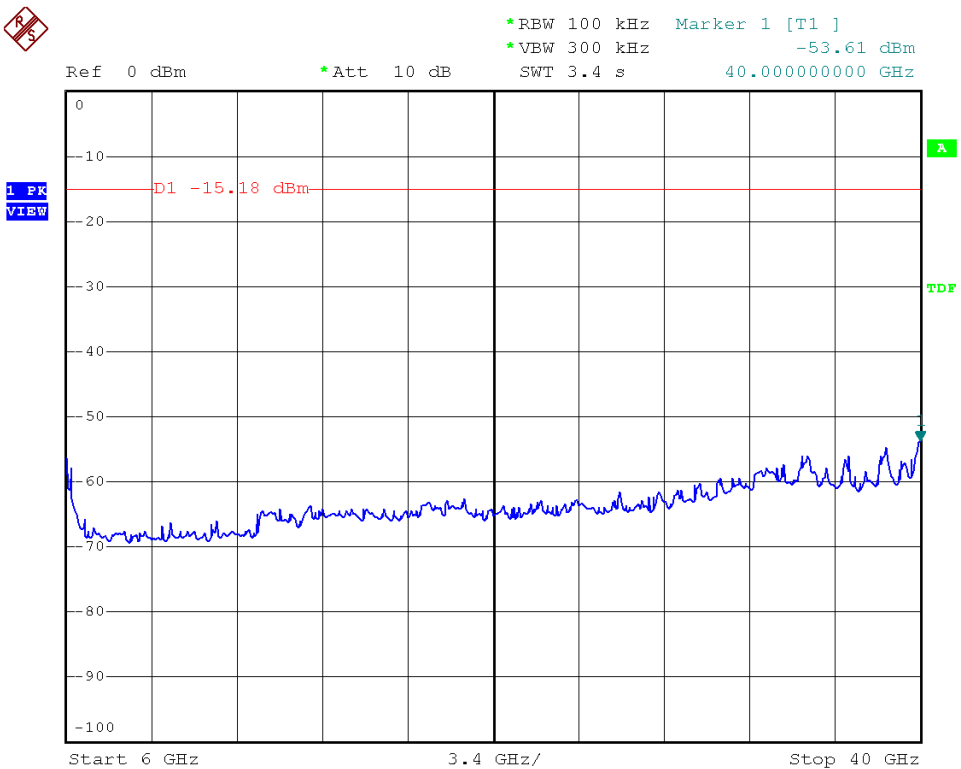
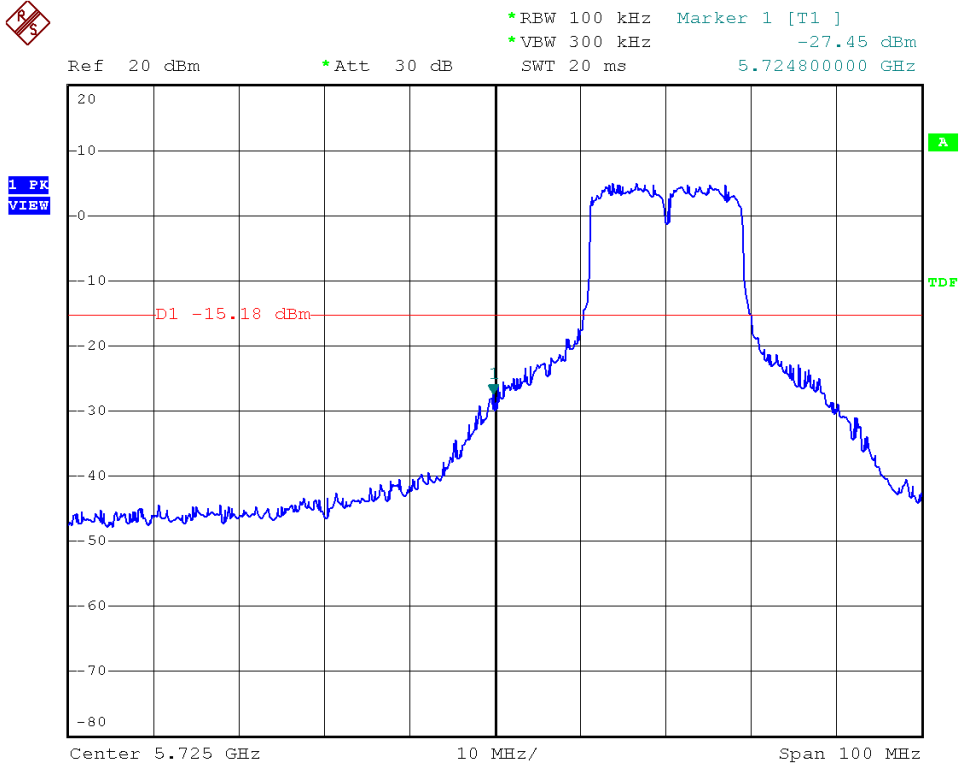


Modulation Standard: 802.11a (54Mbps), ANT L  
Channel: 165





Modulation Standard: 802.11an HT20 (130Mbps), ANT L  
Channel: 149

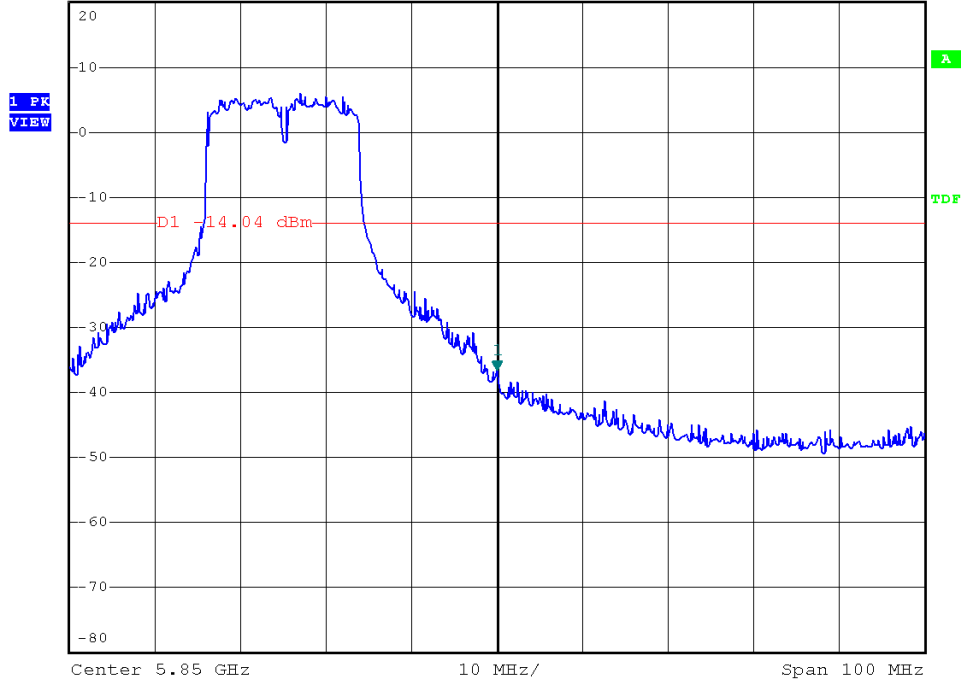




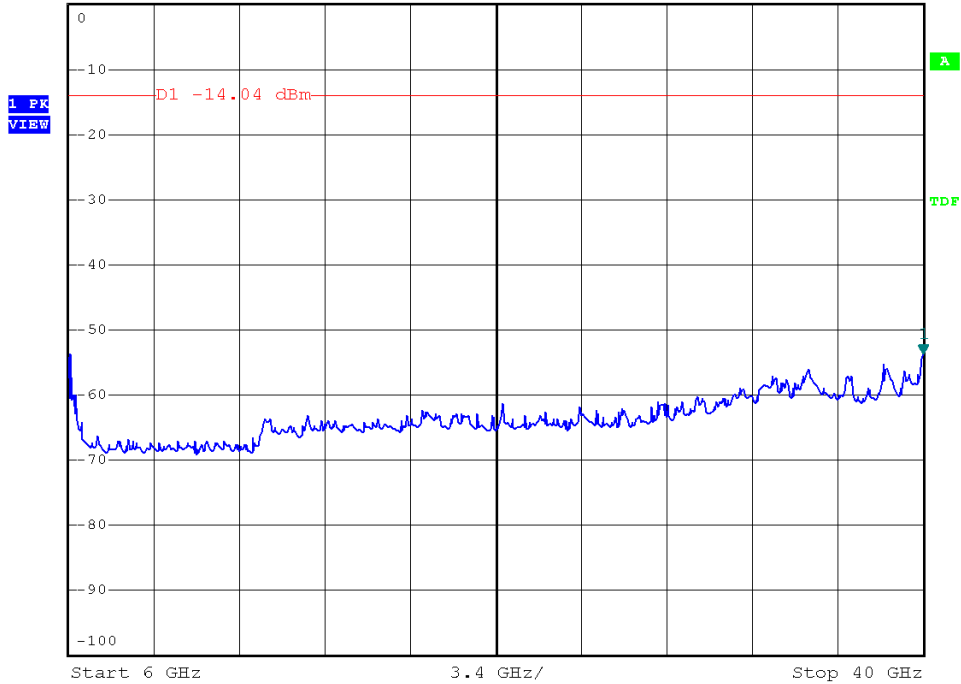
Modulation Standard: 802.11an HT20 (130Mbps), ANT L  
Channel: 165



Ref 20 dBm \*Att 30 dB \*RBW 100 kHz Marker 1 [T1 ]  
\*VBW 300 kHz -36.44 dBm  
SWT 20 ms 5.850000000 GHz



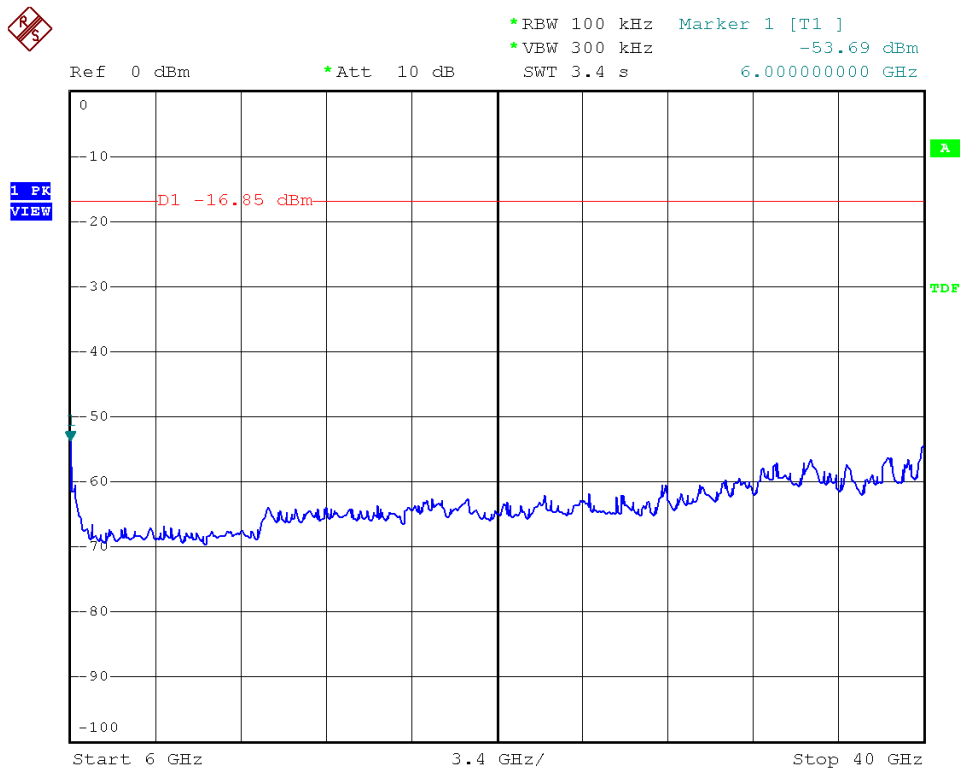
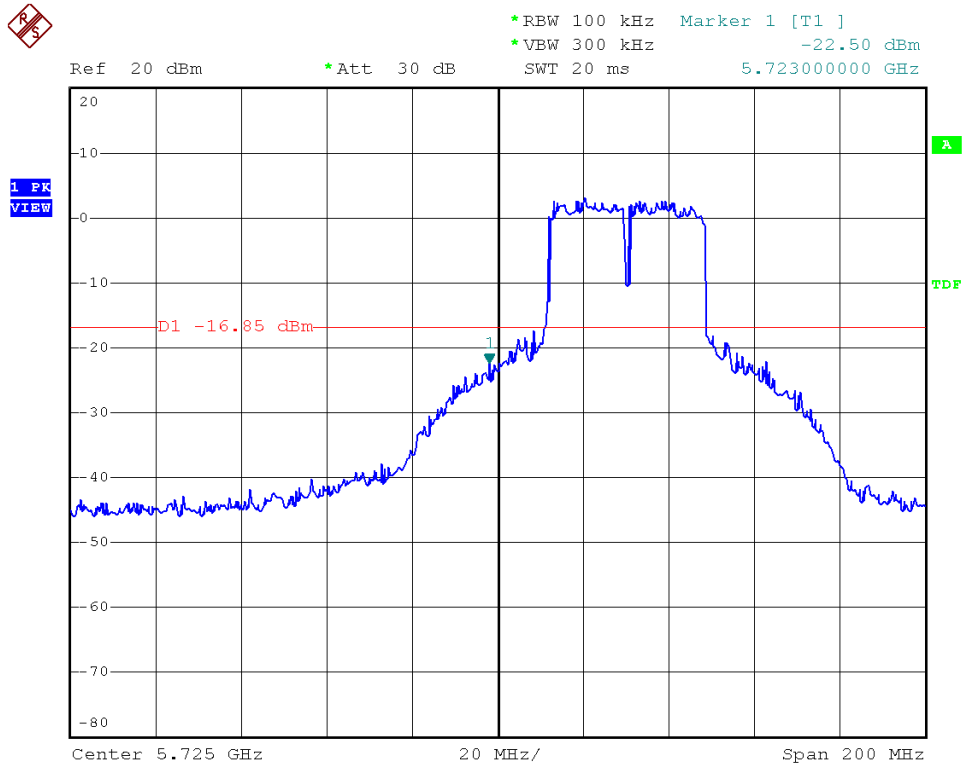
Ref 0 dBm \*Att 10 dB \*RBW 100 kHz Marker 1 [T1 ]  
\*VBW 300 kHz -53.58 dBm  
SWT 3.4 s 40.000000000 GHz







Modulation Standard: 802.11an HT40 (270Mbps), ANT L  
Channel: 151

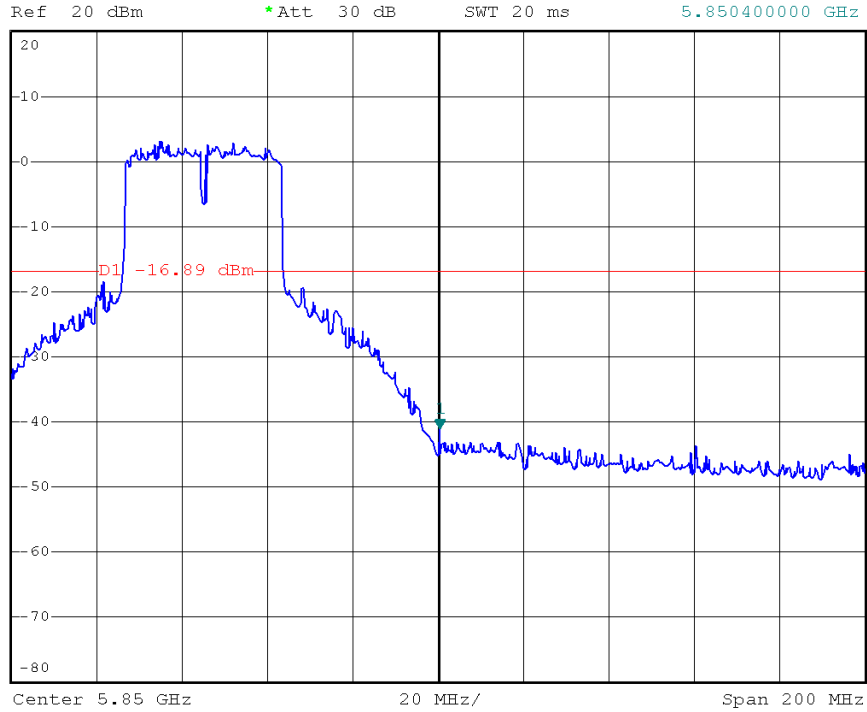




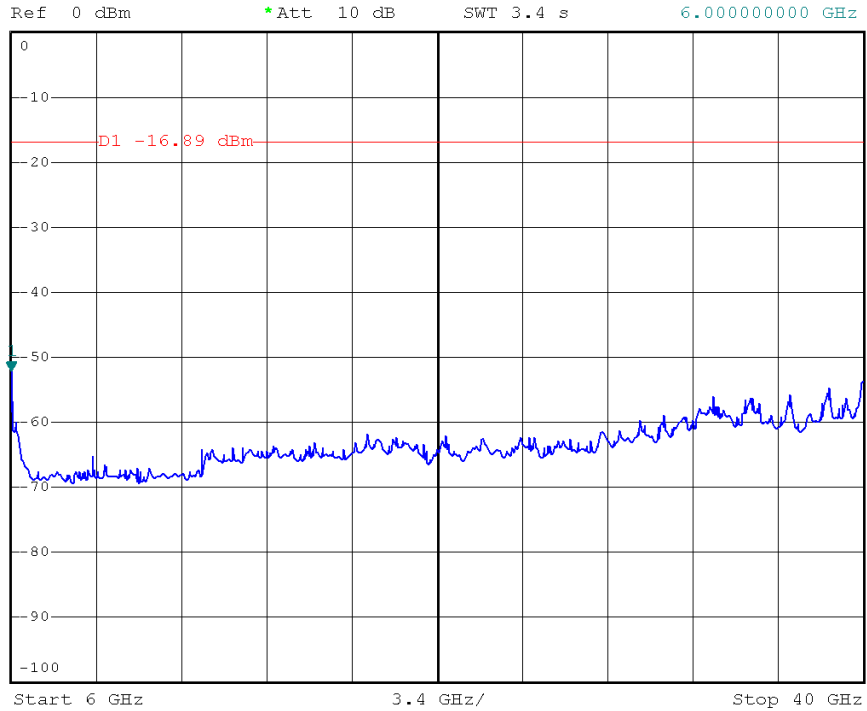
Modulation Standard: 802.11an HT40 (270Mbps), ANT L  
Channel: 159



\*RBW 100 kHz Marker 1 [T1 ]  
\*VBW 300 kHz -40.95 dBm  
SWT 20 ms 5.850400000 GHz



\*RBW 100 kHz Marker 1 [T1 ]  
\*VBW 300 kHz -52.09 dBm  
SWT 3.4 s 6.000000000 GHz





## 9.6 Restrict Band Emission Measurement Data

Test Date: Aug. 29, 2013

Temperature: 26 °C

Atmospheric pressure: 1016 hPa

Humidity: 48 %

Modulation Standard: IEEE 802.11b (11Mbps)

Channel 1						Fundamental Frequency: 2412 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)	Table Deg.	Ant High (m)
						Peak	Ave			
2311.53	H	58.28	2.10	60.38	Peak	74	54	-13.62	109	1.00
2388.80	H	46.62	1.80	48.42	Ave	74	54	-5.58	109	1.00
2334.48	V	59.97	3.33	63.30	Peak	74	54	-10.70	214	1.00
2389.31	V	48.79	2.43	51.22	Ave	74	54	-2.78	214	1.00
Channel 11						Fundamental Frequency: 2462 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)	Table Deg.	Ant High (m)
						Peak	Ave			
2487.54	H	58.82	0.44	59.26	Peak	74	54	-14.74	115	1.00
2500.00	H	47.88	0.25	48.13	Ave	74	54	-5.87	115	1.00
2499.70	V	61.86	-3.00	58.86	Peak	74	54	-15.14	216	1.00
2500.00	V	53.50	-3.02	50.48	Ave	74	54	-3.52	216	1.00

Modulation Standard: IEEE 802.11g (54Mbps)

Channel 1						Fundamental Frequency: 2412 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)	Table Deg.	Ant High (m)
						Peak	Ave			
2312.24	H	58.48	2.10	60.58	Peak	74	54	-13.42	109	1.00
2389.56	H	46.74	1.79	48.53	Ave	74	54	-5.47	109	1.00
2389.97	V	64.74	2.43	67.17	Peak	74	54	-6.83	214	1.00
2389.82	V	50.52	2.43	52.95	Ave	74	54	-1.05	214	1.00
Channel 11						Fundamental Frequency: 2462 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)	Table Deg.	Ant High (m)
						Peak	Ave			
2484.23	H	57.82	0.48	58.30	Peak	74	54	-15.70	115	1.00
2500.00	H	47.90	0.25	48.15	Ave	74	54	-5.85	115	1.00
2484.42	V	61.65	-2.20	59.45	Peak	74	54	-14.55	216	1.00
2500.00	V	54.11	-3.02	51.09	Ave	74	54	-2.91	216	1.00



Modulation Standard: IEEE 802.11n HT20 (130Mbps)

Channel 1						Fundamental Frequency: 2412 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)	Table Deg.	Ant High (m)
						Peak	Ave			
2335.50	H	58.02	2.01	60.03	Peak	74	54	-13.97	122	1.00
2389.82	H	46.47	1.80	48.27	Ave	74	54	-5.73	122	1.00
2389.36	V	61.08	2.43	63.51	Peak	74	54	-10.49	214	1.00
2389.82	V	49.29	2.43	51.72	Ave	74	54	-2.28	214	1.00
Channel 11						Fundamental Frequency: 2462 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)	Table Deg.	Ant High (m)
						Peak	Ave			
2500.00	H	58.87	0.25	59.12	Peak	74	54	-14.88	115	1.00
2500.00	H	48.08	0.25	48.33	Ave	74	54	-5.67	115	1.00
2483.66	V	61.93	-2.16	59.77	Peak	74	54	-14.23	216	1.00
2500.00	V	51.72	-3.02	48.70	Ave	74	54	-5.30	216	1.00

Modulation Standard: IEEE 802.11n HT40 (270Mbps)

Channel 3						Fundamental Frequency: 2422 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)	Table Deg.	Ant High (m)
						Peak	Ave			
2311.84	H	58.18	2.10	60.28	Peak	74	54	-13.72	121	1.00
2389.56	H	46.57	1.79	48.36	Ave	74	54	-5.64	121	1.00
2389.56	V	62.70	2.43	65.13	Peak	74	54	-8.87	214	1.00
2389.82	V	50.24	2.43	52.67	Ave	74	54	-1.33	214	1.00
Channel 9						Fundamental Frequency: 2452 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)	Table Deg.	Ant High (m)
						Peak	Ave			
2484.80	H	58.46	0.47	58.93	Peak	74	54	-15.07	115	1.00
2500.00	H	47.79	0.25	48.04	Ave	74	54	-5.96	115	1.00
2484.42	V	63.25	-2.20	61.05	Peak	74	54	-12.95	216	1.00
2500.00	V	50.89	-3.02	47.87	Ave	74	54	-6.13	216	1.00

Notes:

1. Result = Meter Reading + Factor
2. Factor = Antenna Factor + Cable Loss – Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3 MHz (detector peak mode) for Peak detection at frequency above 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3 MHz (detector sample mode) for Average detection at frequency above 1GHz.



### 10. Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.250
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

\*\* : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

#### 10.1 Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.