



7. Maximum Peak and Average Output Power

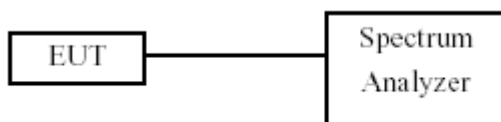
7.1 Test Limit

The Maximum Output Power Measurement is 30dBm.

7.2 Test Procedures

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW of spectrum analyzer to 1MHz and VBW to 3MHz.
- c. Set detector mode to peak (for peak output power) or set detector mode to RMS (for average output power).
- d. Use the spectrum analyzer's integrated band power measurement function with band limits set equal to the EBW band edges.
- e. The maximum peak and average output power was measured and recorded.

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	100219	2011/11/24	2012/11/23



7.5 Test Result and Data

Test Date: Feb. 04, 2012

Temperature: 20°C

Atmospheric pressure: 1020 hPa

Humidity: 68%

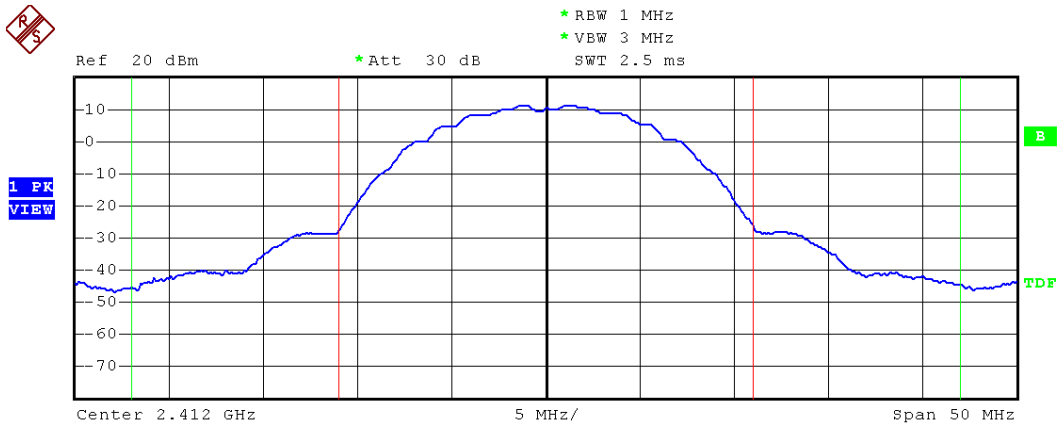
Modulation Type	Channel	Frequency (MHz)	Power Output (dBm)		Power Output (mW)	
			Peak	Average	Peak	Average
802.11b (11Mbps)	01	2412	19.18	16.01	82.8	39.9
	06	2437	19.27	15.97	84.5	39.5
	11	2462	19.09	15.78	81.1	37.8
802.11g (54Mbps)	01	2412	20.73	14.15	118.3	26.0
	06	2437	20.73	14.29	118.3	26.9
	11	2462	21.07	14.32	127.9	27.0

Modulation Type	Channel	Frequency (MHz)	Power Output (dBm)		Power Output (mW)	
			Peak	Average	Peak	Average
802.11n HT20 (6.5Mbps)	01	2412	19.92	13.27	98.2	21.2
	06	2437	20.04	13.25	100.9	21.1
	11	2462	19.88	13.33	97.3	21.5
802.11n HT40 (13.5Mbps)	03	2422	19.61	12.95	91.4	19.7
	06	2437	19.68	13.16	92.9	20.7
	09	2452	19.81	13.36	95.7	21.7



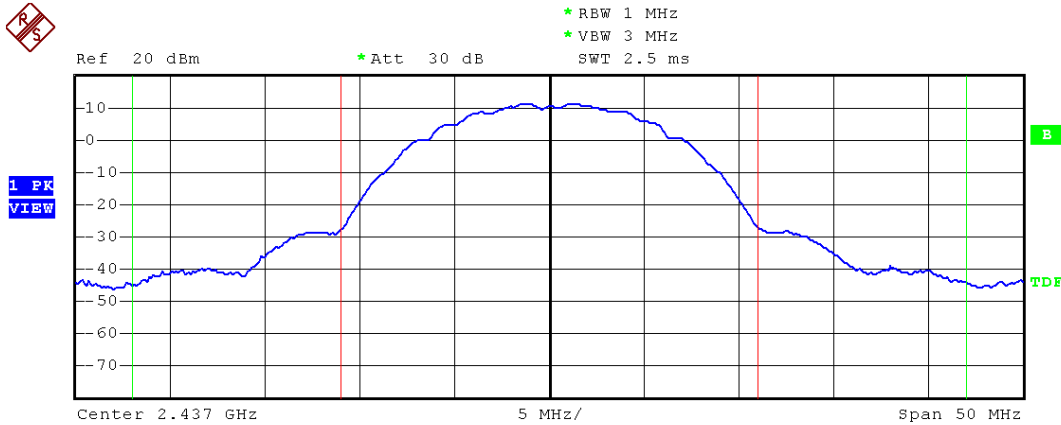
Peak:

Modulation Standard: 802.11b (11Mbps)
Channel: 01



Tx Channel			
Bandwidth	22 MHz	Power	19.18 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-43.08 dB
Spacing	16.5 MHz	Upper	-42.61 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

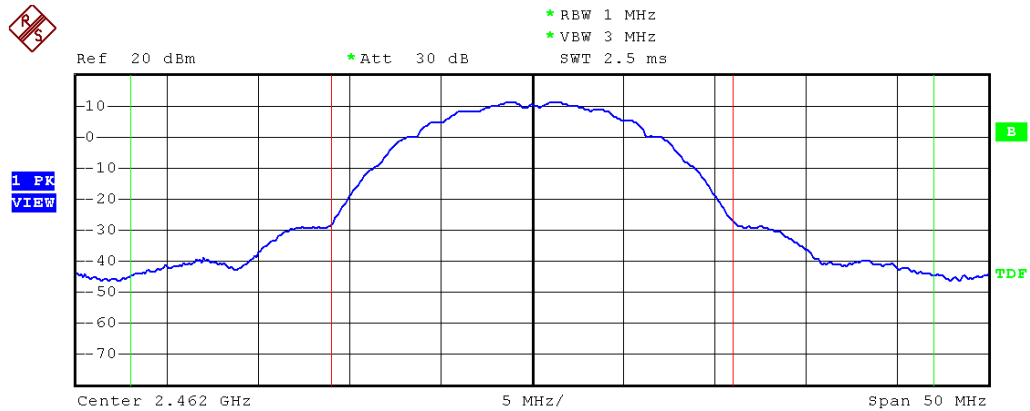
Modulation Standard: 802.11b (11Mbps)
Channel: 06



Tx Channel			
Bandwidth	22 MHz	Power	19.27 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-43.31 dB
Spacing	16.5 MHz	Upper	-42.98 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

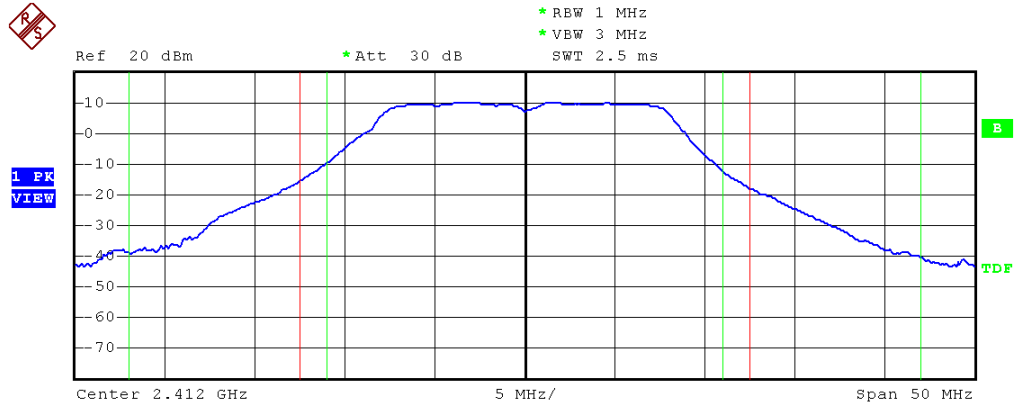


Modulation Standard: 802.11b (11Mbps)
Channel: 11



Tx Channel			
Bandwidth	22 MHz	Power	19.09 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-43.58 dB
Spacing	16.5 MHz	Upper	-43.37 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

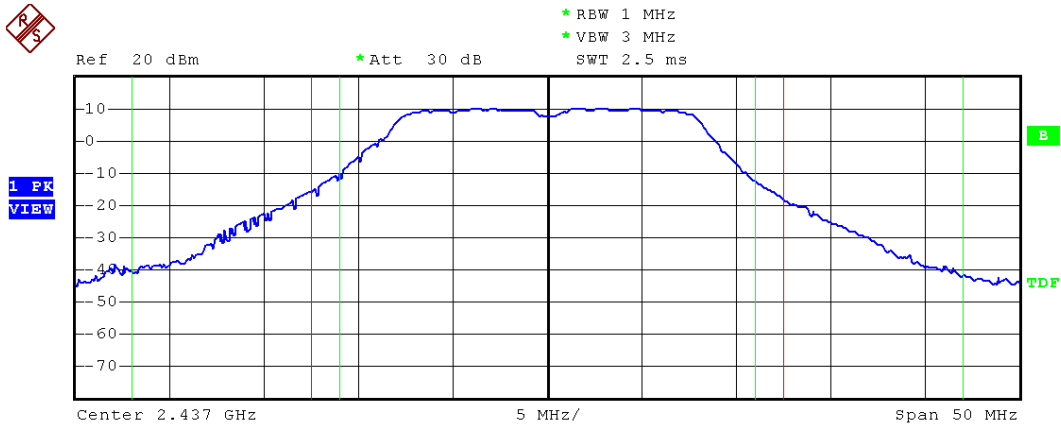
Modulation Standard: 802.11g (54Mbps)
Channel: 01



Tx Channel			
Bandwidth	25 MHz	Power	20.73 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-30.53 dB
Spacing	16.5 MHz	Upper	-32.93 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

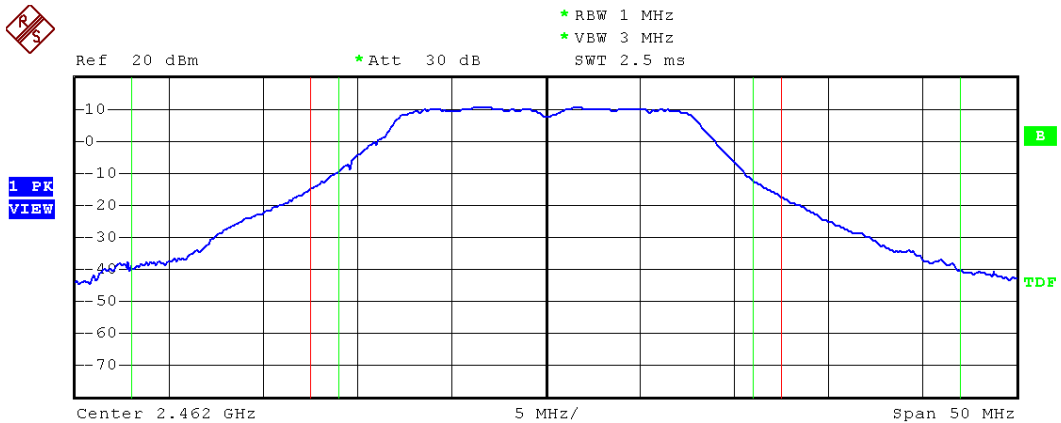


Modulation Standard: 802.11g (54Mbps)
Channel: 06



Tx Channel			
Bandwidth	25 MHz	Power	20.73 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-30.76 dB
Spacing	16.5 MHz	Upper	-33.09 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

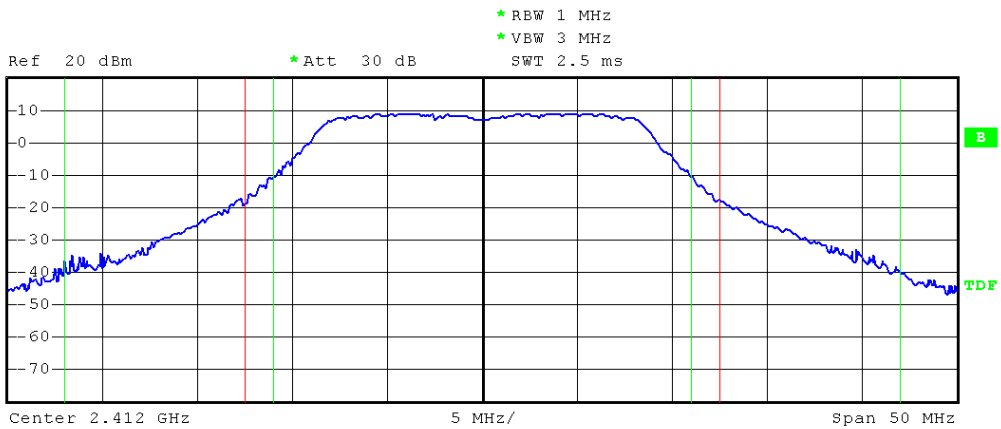
Modulation Standard: 802.11g (54Mbps)
Channel: 11



Tx Channel			
Bandwidth	25 MHz	Power	21.07 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-30.45 dB
Spacing	16.5 MHz	Upper	-33.01 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

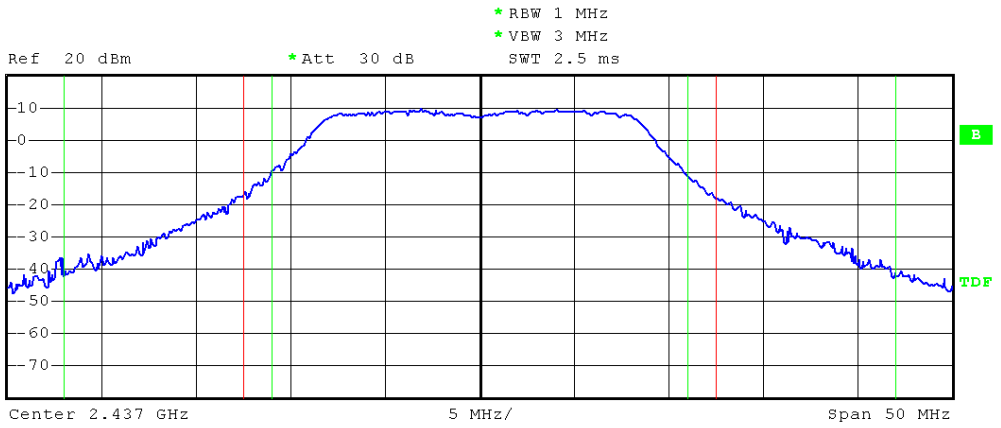


Modulation Standard: 802.11n HT20 (6.5Mbps)
Channel: 01



Tx Channel			
Bandwidth	25 MHz	Power	19.92 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-31.22 dB
Spacing	16.5 MHz	Upper	-31.36 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

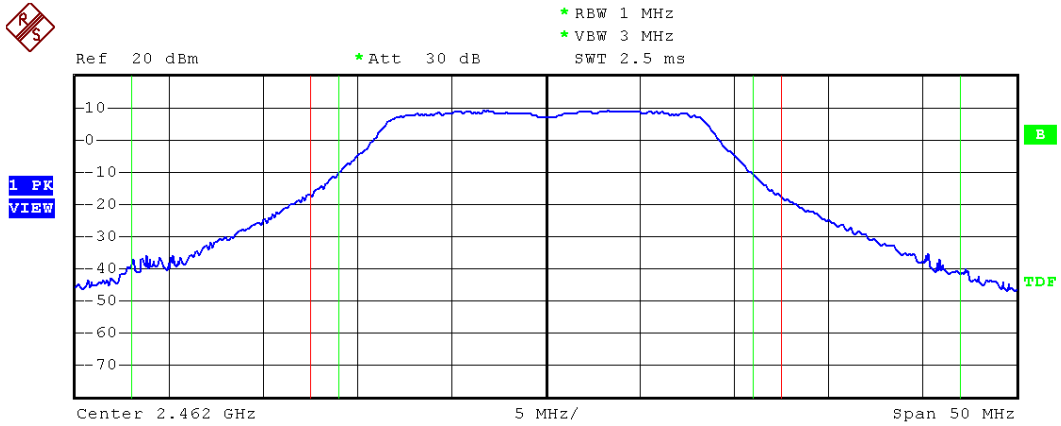
Modulation Standard: 802.11n HT20 (6.5Mbps)
Channel: 06



Tx Channel			
Bandwidth	25 MHz	Power	20.04 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-31.40 dB
Spacing	16.5 MHz	Upper	-31.57 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

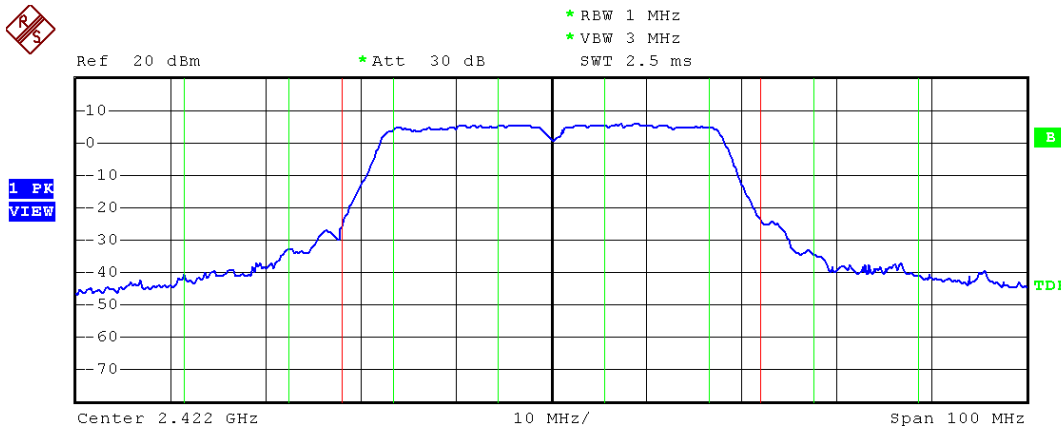


Modulation Standard: 802.11n HT20 (6.5Mbps)
Channel: 11



Tx Channel			
Bandwidth	25 MHz	Power	19.88 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-30.97 dB
Spacing	16.5 MHz	Upper	-31.38 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

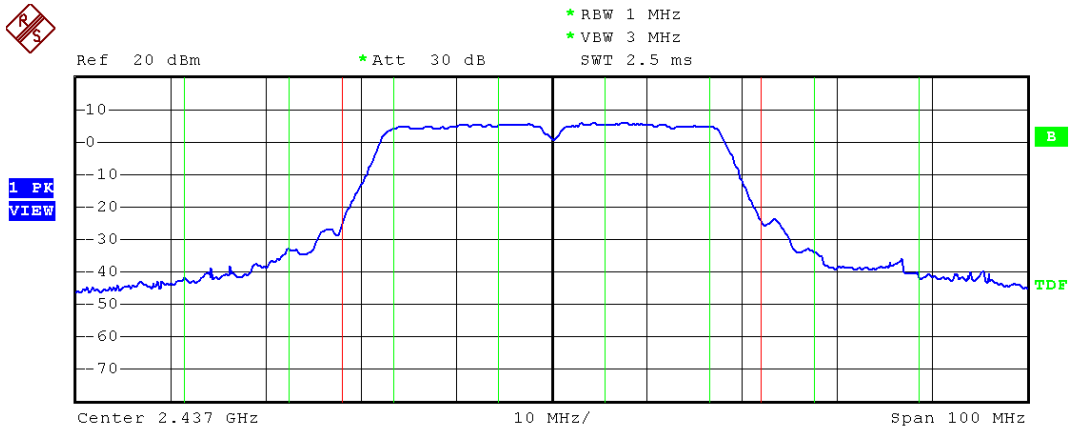
Modulation Standard: 802.11n HT40 (13.5Mbps)
Channel: 03



Tx Channel			
Bandwidth	44 MHz	Power	19.61 dBm
Adjacent Channel			
Bandwidth	22 MHz	Lower	-4.94 dB
Spacing	16.5 MHz	Upper	-4.32 dB
Alternate Channel			
Bandwidth	22 MHz	Lower	-15.13 dB
Spacing	27.5 MHz	Upper	-13.75 dB

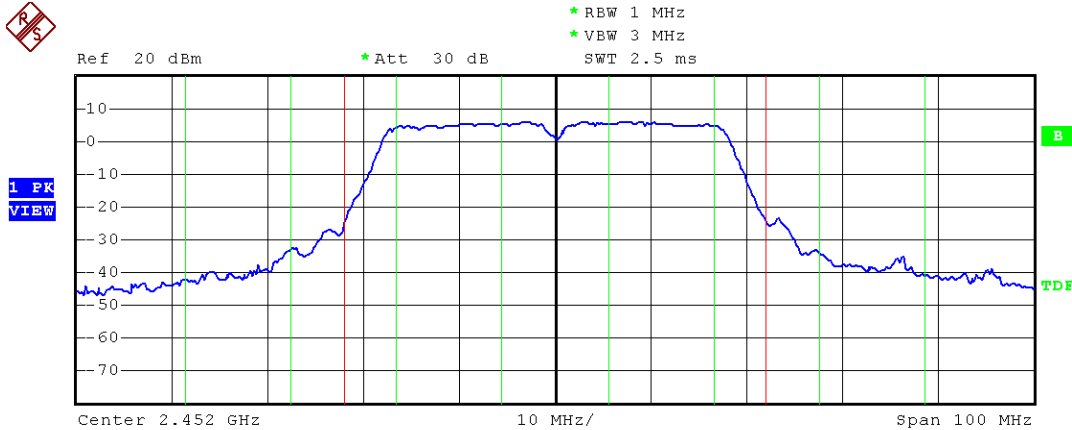


Modulation Standard: 802.11n HT40 (13.5Mbps)
Channel: 06



Tx Channel			
Bandwidth	44 MHz	Power	19.68 dBm
Adjacent Channel			
Bandwidth	22 MHz	Lower	-4.87 dB
Spacing	16.5 MHz	Upper	-4.38 dB
Alternate Channel			
Bandwidth	22 MHz	Lower	-15.10 dB
Spacing	27.5 MHz	Upper	-13.87 dB

Modulation Standard: 802.11n HT40 (13.5Mbps)
Channel: 09

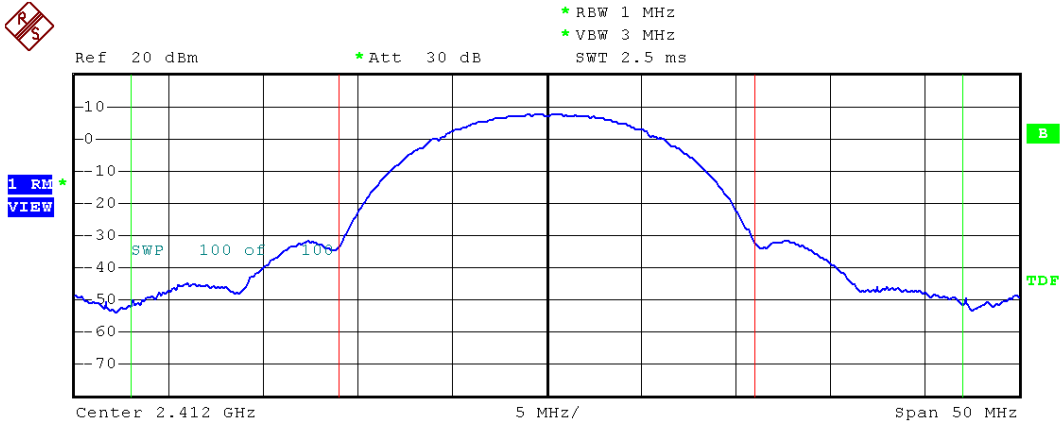


Tx Channel			
Bandwidth	44 MHz	Power	19.81 dBm
Adjacent Channel			
Bandwidth	22 MHz	Lower	-4.85 dB
Spacing	16.5 MHz	Upper	-4.38 dB
Alternate Channel			
Bandwidth	22 MHz	Lower	-15.14 dB
Spacing	27.5 MHz	Upper	-13.89 dB



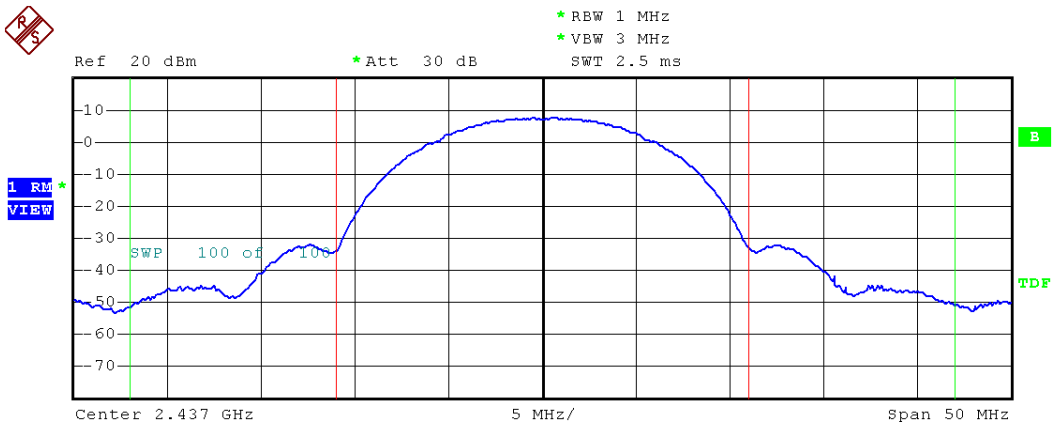
Average:

Modulation Standard: 802.11b (11Mbps)
Channel: 01



Tx Channel			
Bandwidth	22 MHz	Power	16.01 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-44.04 dB
Spacing	16.5 MHz	Upper	-43.63 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

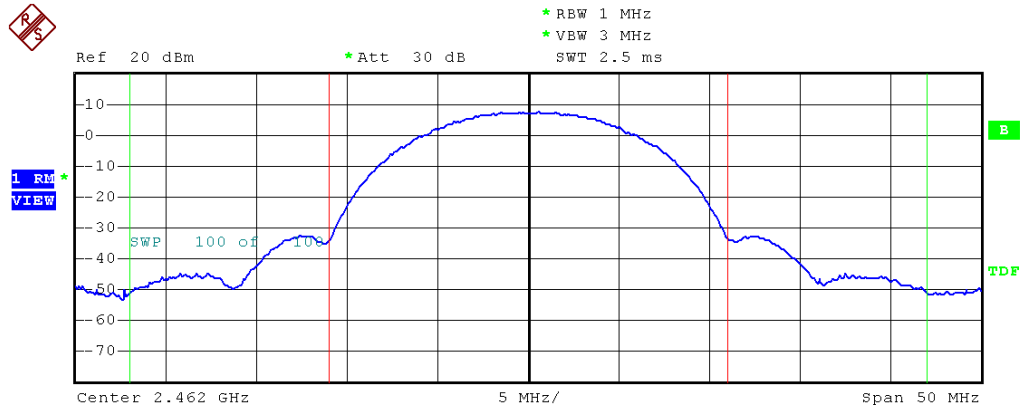
Modulation Standard: 802.11b (11Mbps)
Channel: 06



Tx Channel			
Bandwidth	22 MHz	Power	15.97 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-44.27 dB
Spacing	16.5 MHz	Upper	-44.19 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

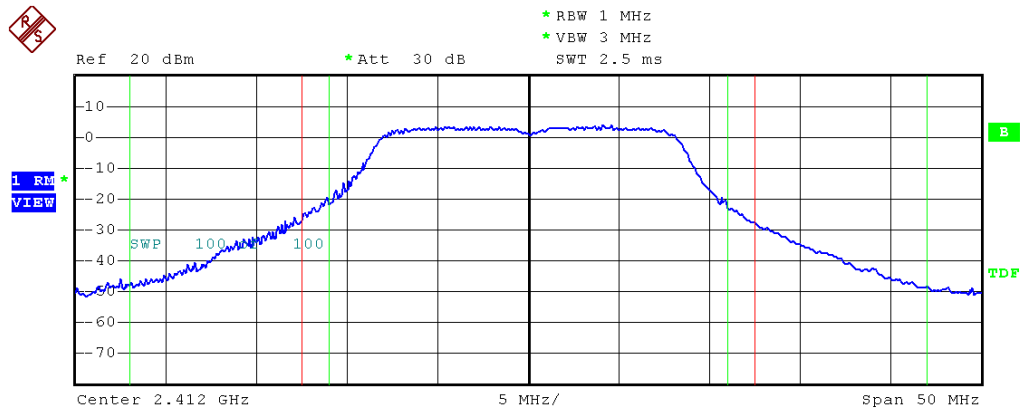


Modulation Standard: 802.11b (11Mbps)
Channel: 11



Tx Channel			
Bandwidth	22 MHz	Power	15.78 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-44.60 dB
Spacing	16.5 MHz	Upper	-44.56 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11g (54Mbps)
Channel: 01



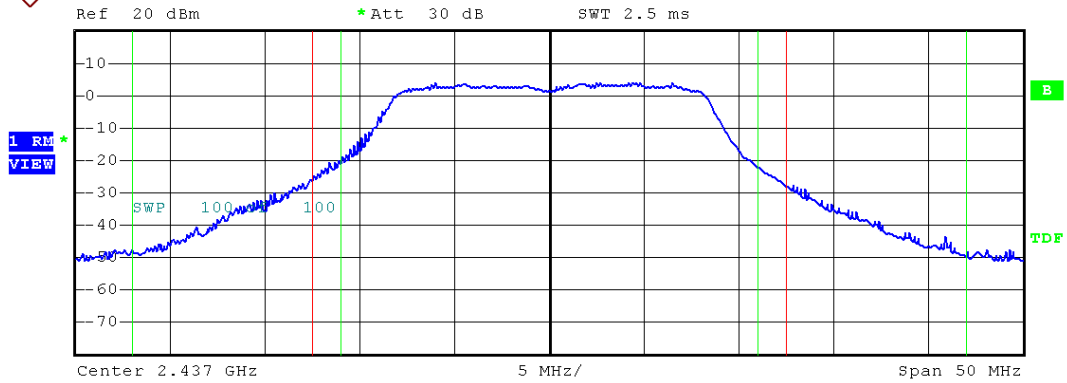
Tx Channel			
Bandwidth	25 MHz	Power	14.15 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-34.15 dB
Spacing	16.5 MHz	Upper	-35.82 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----



Modulation Standard: 802.11g (54Mbps)
Channel: 06



* RBW 1 MHz
* VBW 3 MHz
SWT 2.5 ms

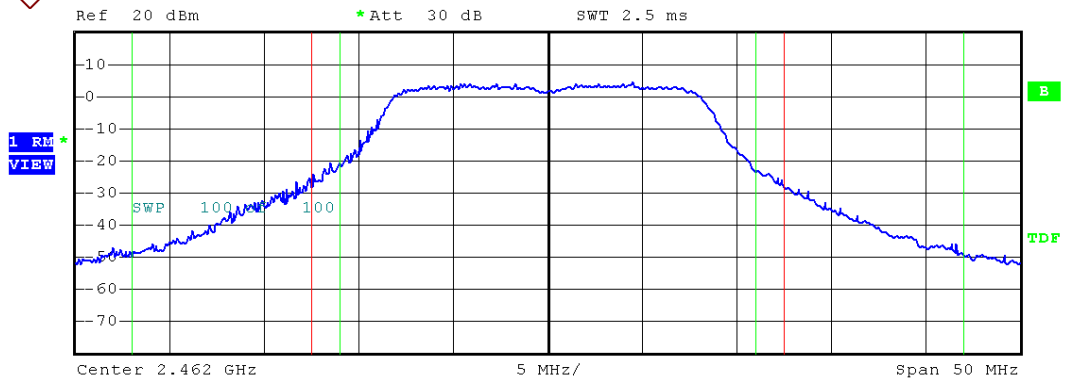


Tx Channel		Bandwidth	25 MHz	Power	14.29 dBm
Adjacent Channel		Bandwidth	11 MHz	Lower	-34.15 dB
		Spacing	16.5 MHz	Upper	-35.87 dB
Alternate Channel		Bandwidth	11 MHz	Lower	-----
		Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11g (54Mbps)
Channel: 11



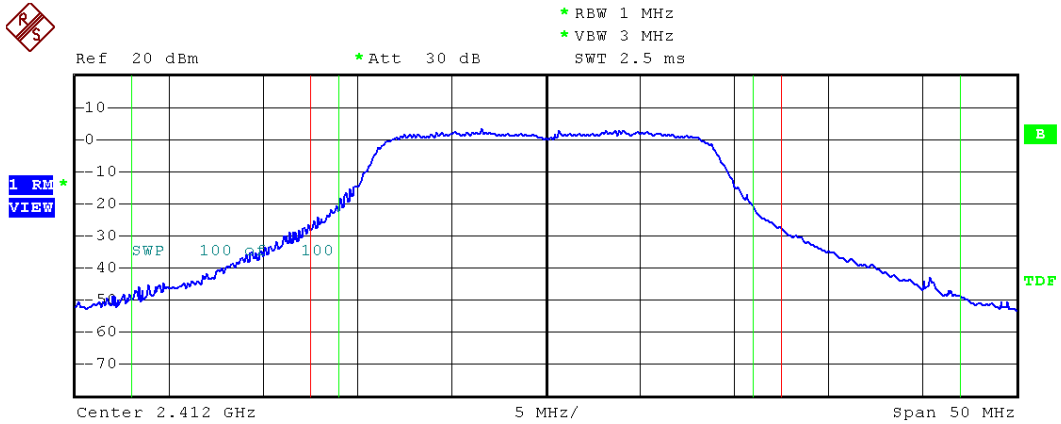
* RBW 1 MHz
* VBW 3 MHz
SWT 2.5 ms



Tx Channel		Bandwidth	25 MHz	Power	14.32 dBm
Adjacent Channel		Bandwidth	11 MHz	Lower	-34.81 dB
		Spacing	16.5 MHz	Upper	-36.03 dB
Alternate Channel		Bandwidth	11 MHz	Lower	-----
		Spacing	27.5 MHz	Upper	-----

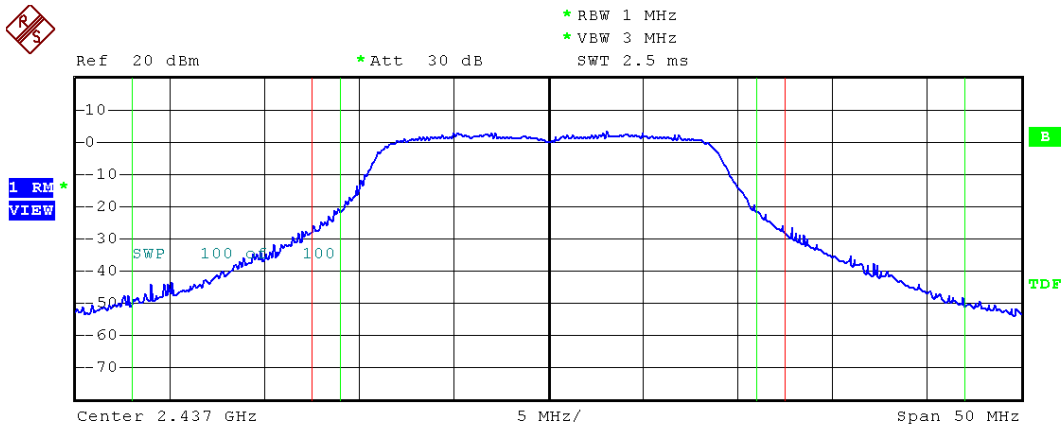


Modulation Standard: 802.11n HT20 (6.5Mbps)
Channel: 01



Tx Channel			
Bandwidth	25 MHz	Power	13.27 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-34.50 dB
Spacing	16.5 MHz	Upper	-34.89 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

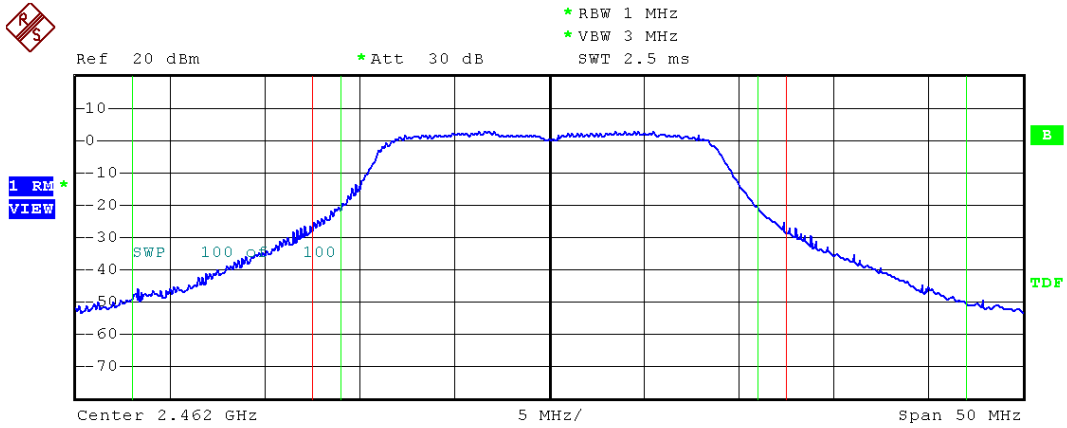
Modulation Standard: 802.11n HT20 (6.5Mbps)
Channel: 06



Tx Channel			
Bandwidth	25 MHz	Power	13.25 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-34.63 dB
Spacing	16.5 MHz	Upper	-34.53 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

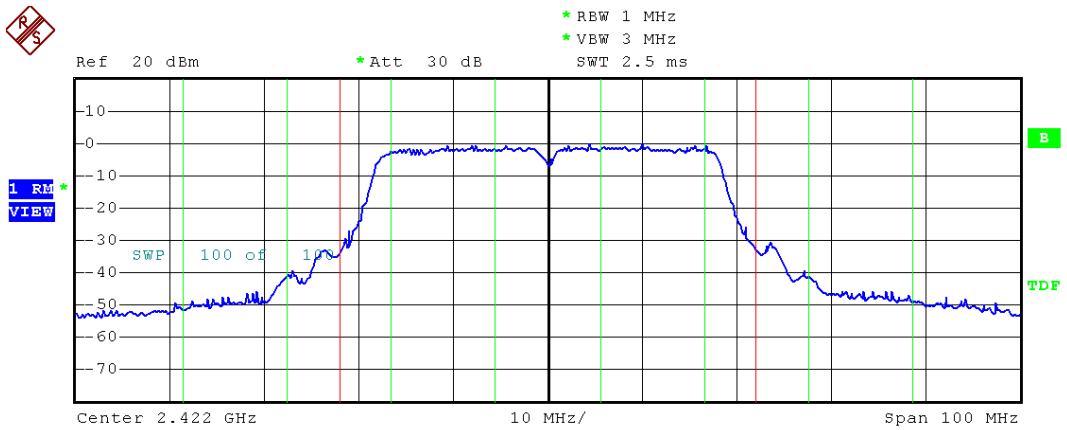


Modulation Standard: 802.11n HT20 (6.5Mbps)
Channel: 11



Tx Channel			
Bandwidth	25 MHz	Power	13.33 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-34.15 dB
Spacing	16.5 MHz	Upper	-34.44 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

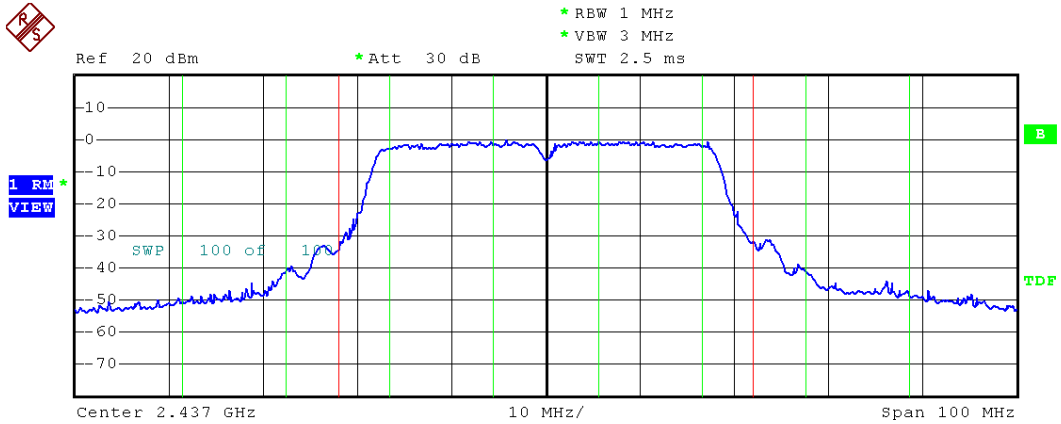
Modulation Standard: 802.11n HT40 (13.5Mbps)
Channel: 03



Tx Channel			
Bandwidth	44 MHz	Power	12.95 dBm
Adjacent Channel			
Bandwidth	22 MHz	Lower	-4.84 dB
Spacing	16.5 MHz	Upper	-4.24 dB
Alternate Channel			
Bandwidth	22 MHz	Lower	-14.88 dB
Spacing	27.5 MHz	Upper	-13.36 dB

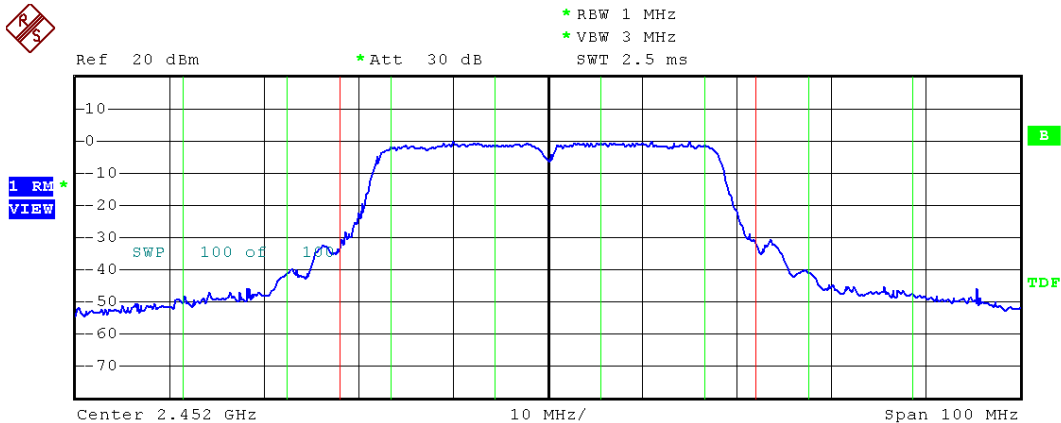


Modulation Standard: 802.11n HT40 (13.5Mbps)
Channel: 06



Tx Channel		Power	13.16 dBm
Bandwidth	44 MHz		
Adjacent Channel		Lower	-4.80 dB
Bandwidth	22 MHz	Upper	-4.34 dB
Spacing	16.5 MHz		
Alternate Channel		Lower	-14.87 dB
Bandwidth	22 MHz	Upper	-13.47 dB
Spacing	27.5 MHz		

Modulation Standard: 802.11n HT40 (13.5Mbps)
Channel: 09



Tx Channel		Power	13.36 dBm
Bandwidth	44 MHz		
Adjacent Channel		Lower	-4.75 dB
Bandwidth	22 MHz	Upper	-4.37 dB
Spacing	16.5 MHz		
Alternate Channel		Lower	-14.82 dB
Bandwidth	22 MHz	Upper	-13.50 dB
Spacing	27.5 MHz		



8. Power Spectral Density

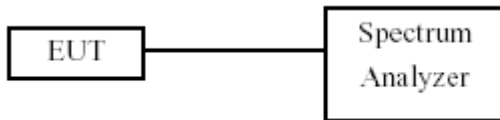
8.1 Test Limit

The Maximum of Power Spectral Density Measurement is 8dBm.

8.2 Test Procedures

- a. The transmitter output was connected to spectrum analyzer.
- b. The spectrum analyzer’s resolution bandwidth were set at 100KHz RBW and 300KHz VBW as that of the fundamental frequency. Set the sweep time=auto couple.
- c. Scale the observed power level to an equivalent value in 3 kHz by adjusting the measured power by a bandwidth correction factor (BWCF) where BWCF= $10\log(3\text{ kHz}/100) = -15.2\text{ dB}$.
- d. 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	100219	2011/11/24	2012/11/23

8.5 Test Result and Data

Test Date: Feb. 04, 2012

Temperature: 20°C

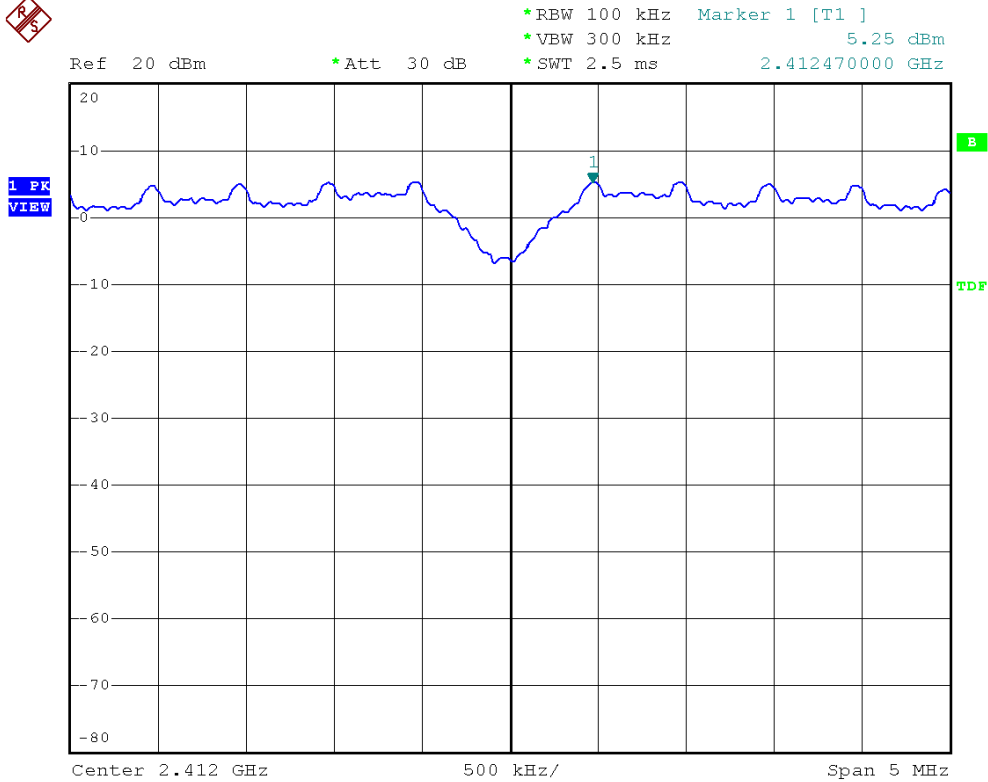
Atmospheric pressure: 1020 hPa

Humidity: 68%

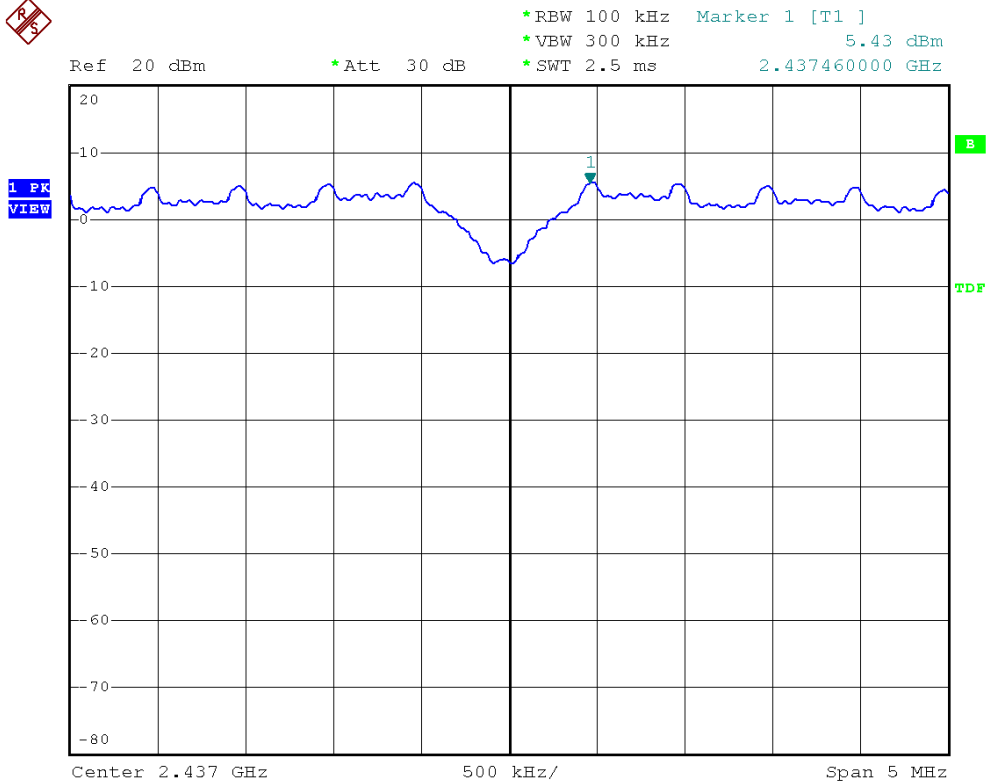
Modulation Standard	Channel	Frequency (MHz)	Maximum Power Density of 3 kHz Bandwidth (dBm)
802.11b (11Mbps)	01	2412	-9.95
	06	2437	-9.77
	11	2462	-10.14
802.11g (54Mbps)	01	2412	-17.37
	06	2437	-17.16
	11	2462	-16.85
802.11n HT20 (6.5Mbps)	01	2412	-18.25
	06	2437	-18.35
	11	2462	-18.54
802.11n HT40 (13.5Mbps)	03	2422	-21.98
	06	2437	-21.47
	09	2452	-21.26



Modulation Standard: 802.11b (11Mbps)
Channel: 01

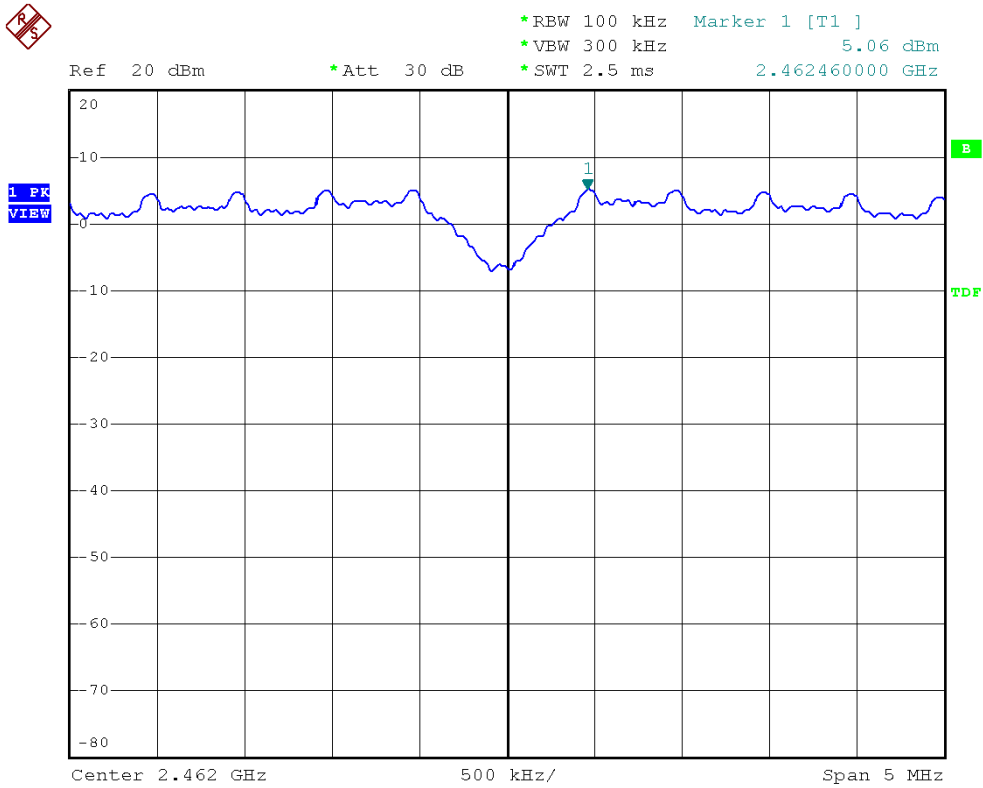


Modulation Standard: 802.11b (11Mbps)
Channel: 06

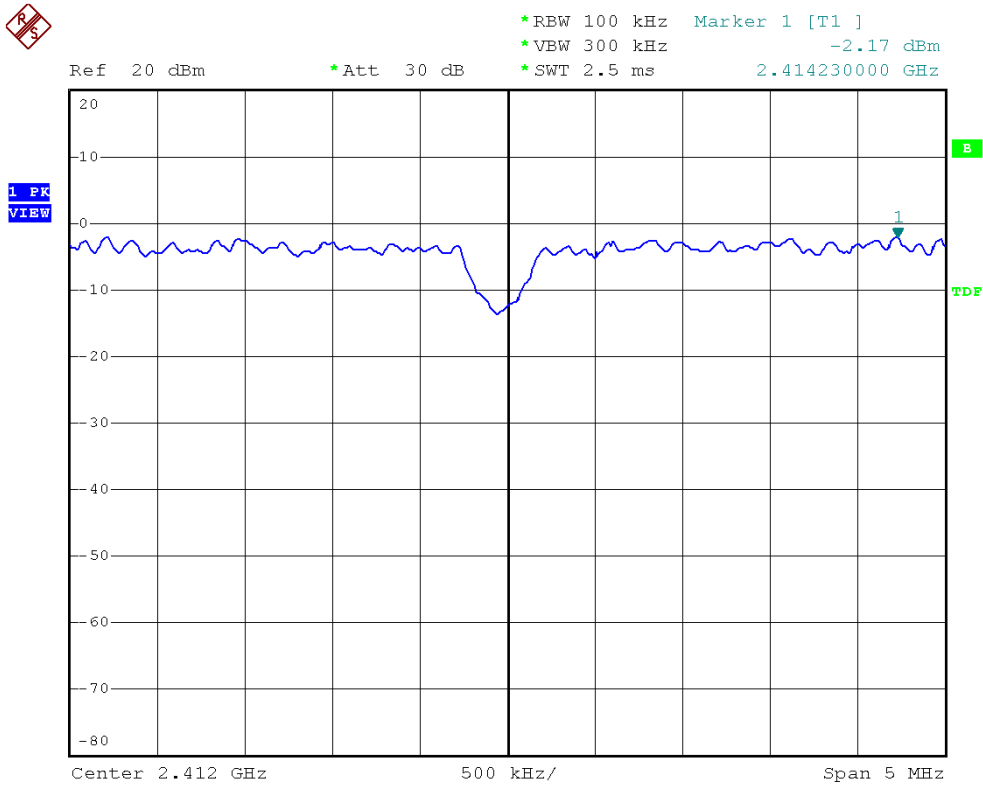




Modulation Standard: 802.11b (11Mbps)
Channel: 11



Modulation Standard: 802.11g (54Mbps)
Channel: 01

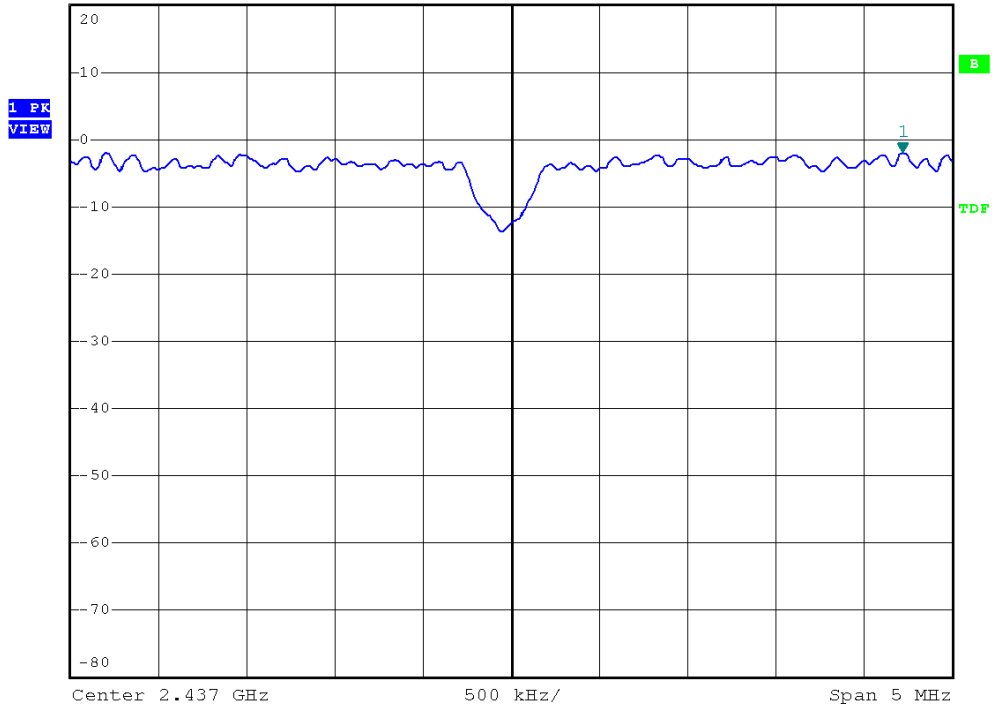




Modulation Standard: 802.11g (54Mbps)
Channel: 06



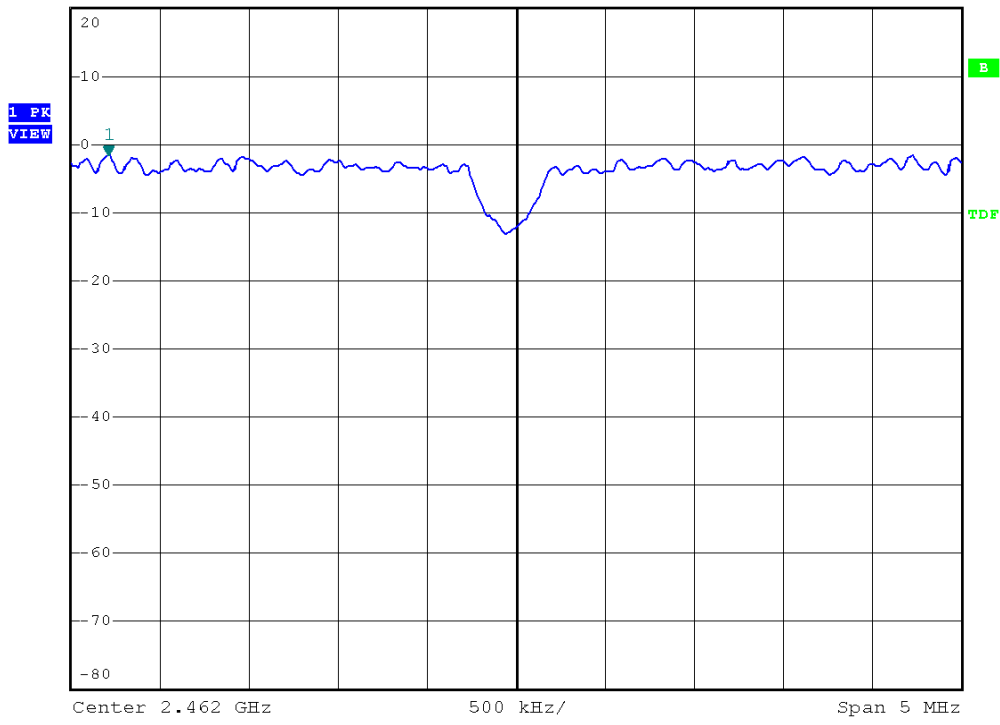
Ref 20 dBm *Att 30 dB *RBW 100 kHz Marker 1 [T1] -1.96 dBm
*VBW 300 kHz 2.439220000 GHz
*SWT 2.5 ms



Modulation Standard: 802.11g (54Mbps)
Channel: 11

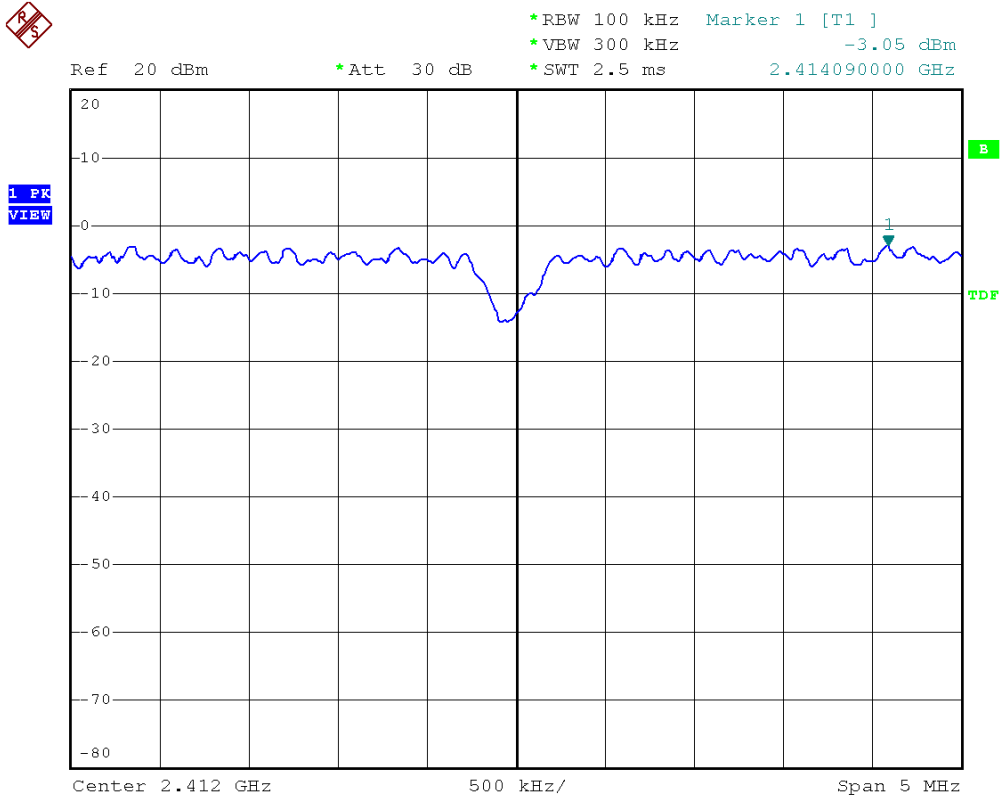


Ref 20 dBm *Att 30 dB *RBW 100 kHz Marker 1 [T1] -1.65 dBm
*VBW 300 kHz 2.459710000 GHz
*SWT 2.5 ms

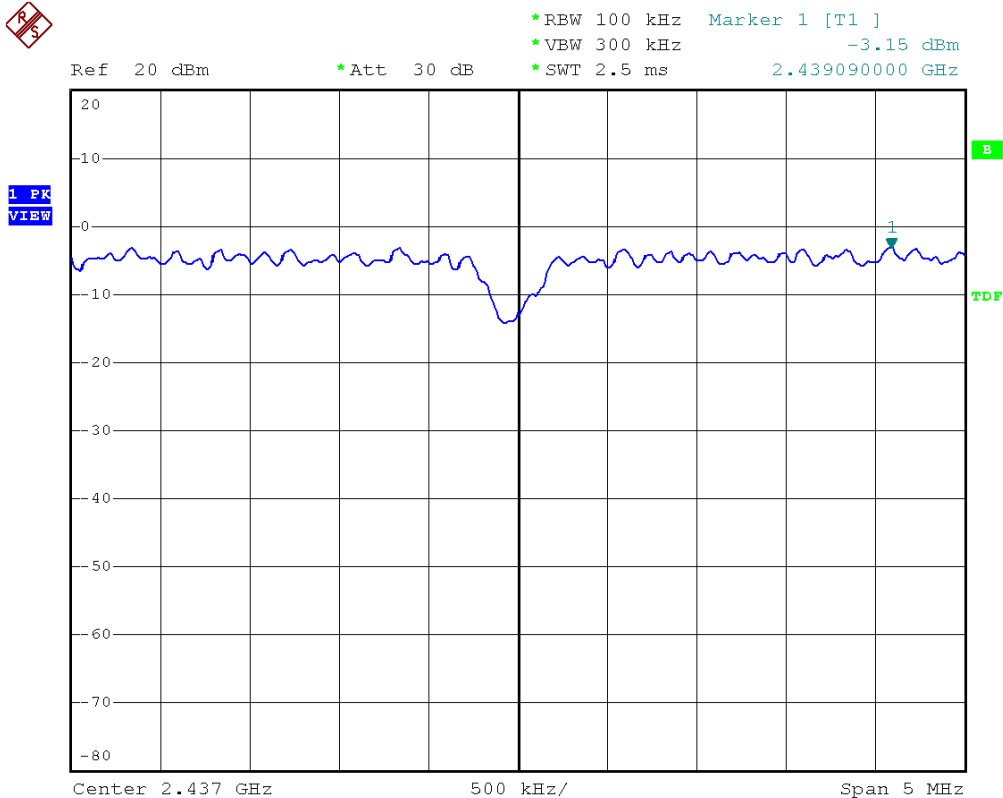




Modulation Standard: 802.11n HT20 (6.5Mbps)
Channel: 01

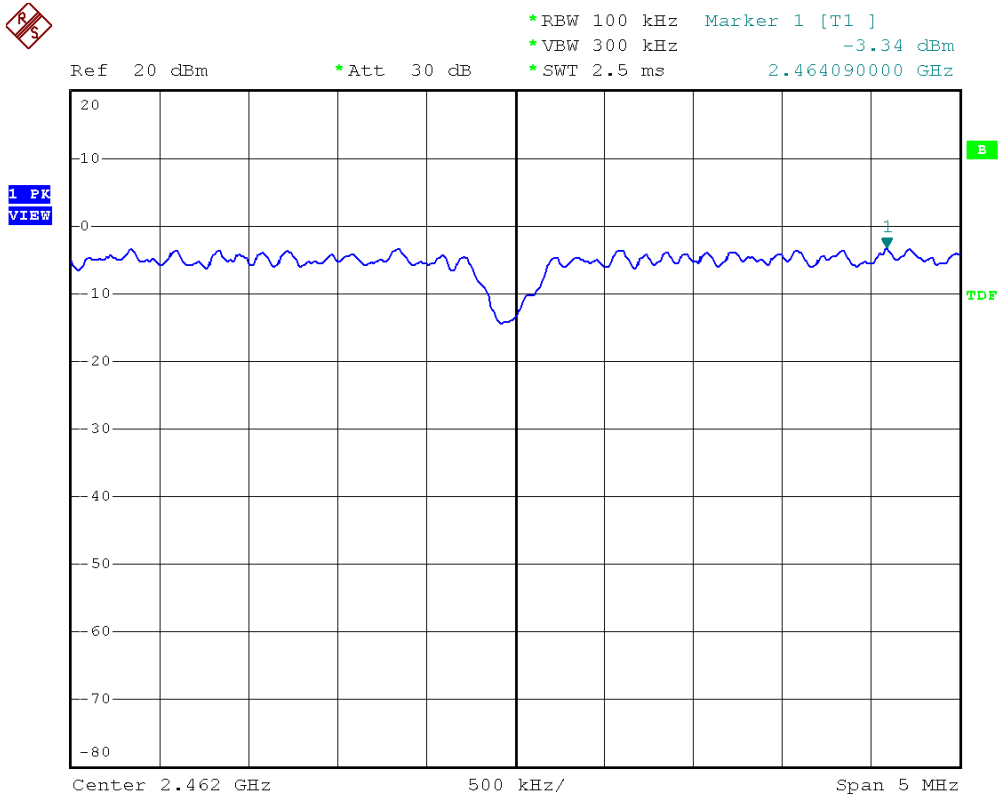


Modulation Standard: 802.11n HT20 (6.5Mbps)
Channel: 06

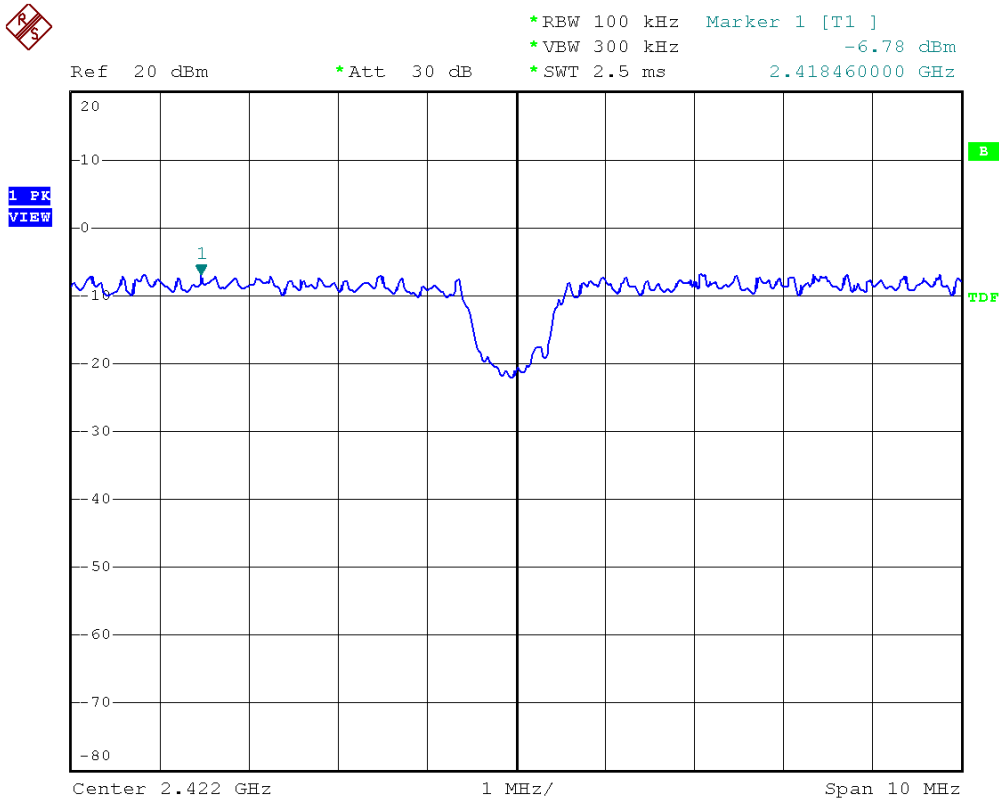




Modulation Standard: 802.11n HT20 (6.5Mbps)
Channel: 11

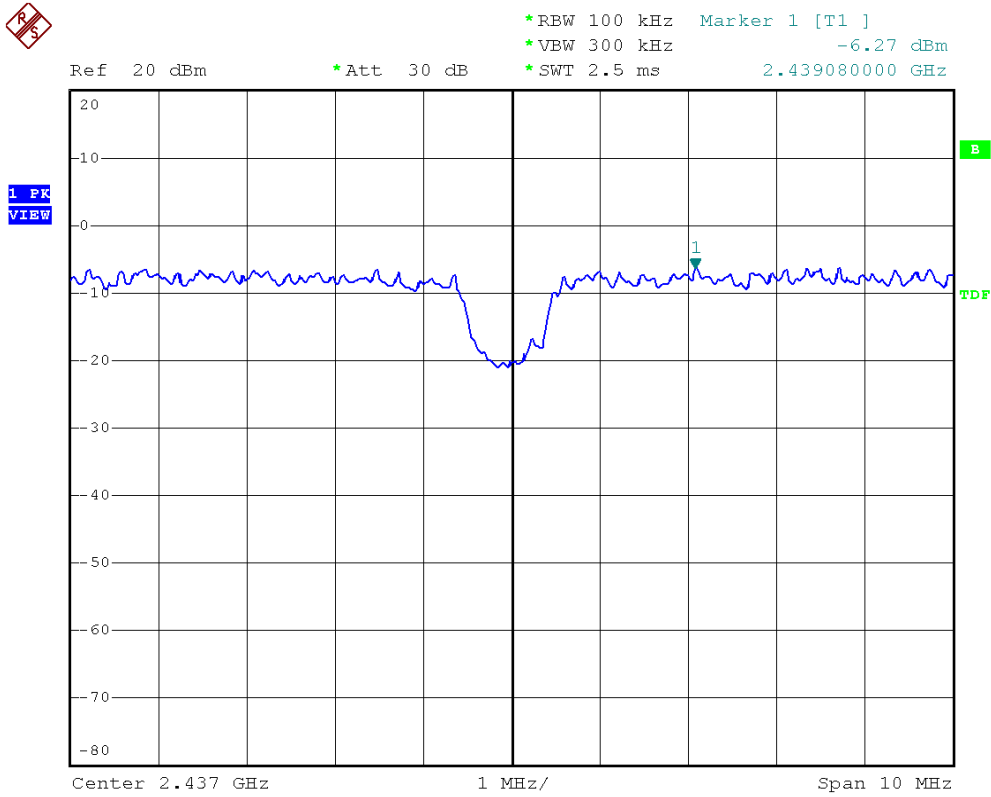


Modulation Standard: 802.11n HT40 (13.5Mbps)
Channel: 03

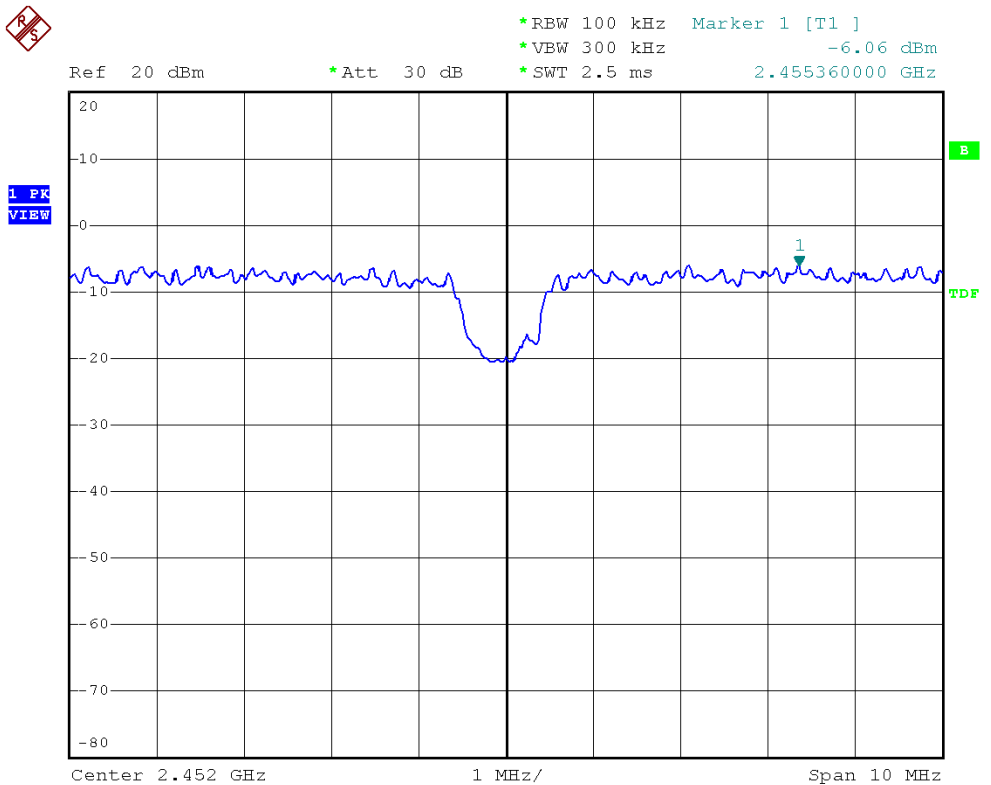




Modulation Standard: 802.11n HT40 (13.5Mbps)
Channel: 06



Modulation Standard: 802.11n HT40 (13.5Mbps)
Channel: 09





9. Band Edges Measurement

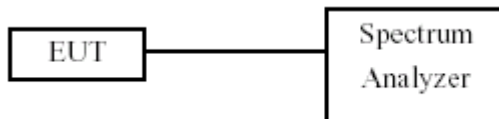
9.1 Test Limit

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

9.2 Test Procedure

- The transmitter output was connected to the spectrum analyzer via a low lose cable.
- 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.
- 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	100219	2011/11/24	2012/11/23

9.5 Test Result and Data

Test Date: Feb. 04, 2012

Temperature: 20°C

Atmospheric pressure: 1020 hPa

Humidity: 68%

Modulation Standard	Channel	Frequency (MHz)	maximum value in frequency (MHz)	maximum value (dBm)
802.11b (11Mbps)	01	2412	2399.60	-32.90
	11	2462	2860.00	-45.41
802.11g (54Mbps)	01	2412	2399.80	-32.88
	11	2462	2485.70	-47.17
802.11n HT20 (6.5Mbps)	01	2412	2400.00	-34.26
	11	2462	2520.50	-46.65
802.11n HT40 (13.5Mbps)	03	2422	2398.60	-37.06
	09	2452	2487.30	-45.79

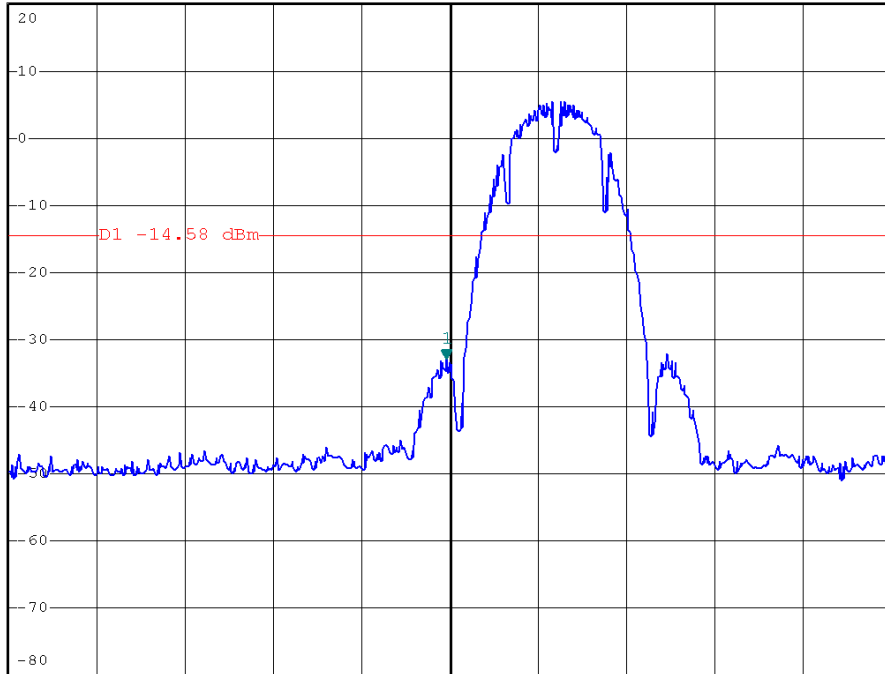


Modulation Standard: 802.11b (11Mbps)
Channel: 01



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz -32.90 dBm
SWT 10 ms 2.399600000 GHz

Ref 20 dBm *Att 30 dB

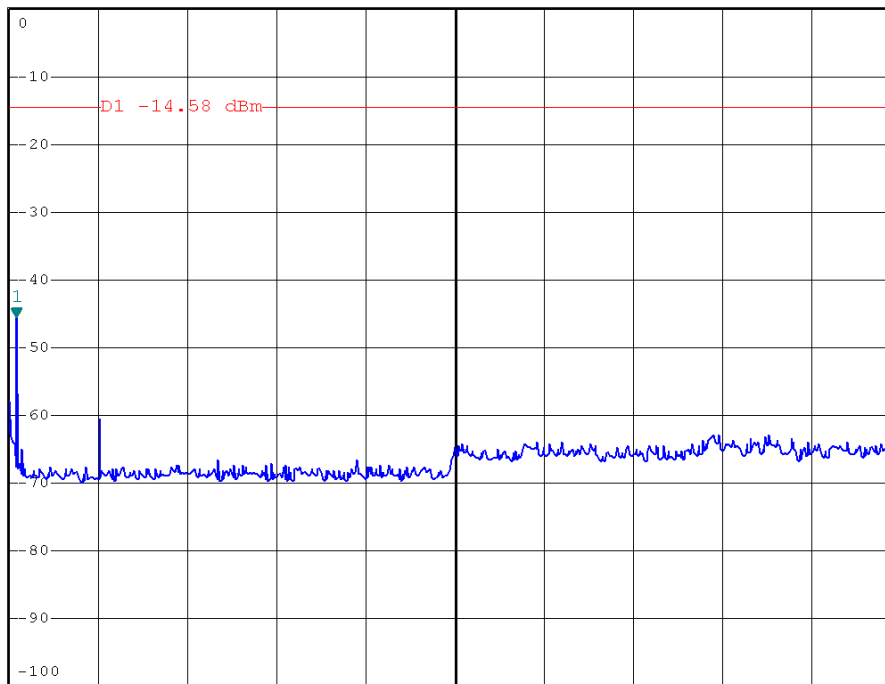


Center 2.4 GHz 10 MHz/ Span 100 MHz



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz -45.63 dBm
SWT 2.25 s 2.680000000 GHz

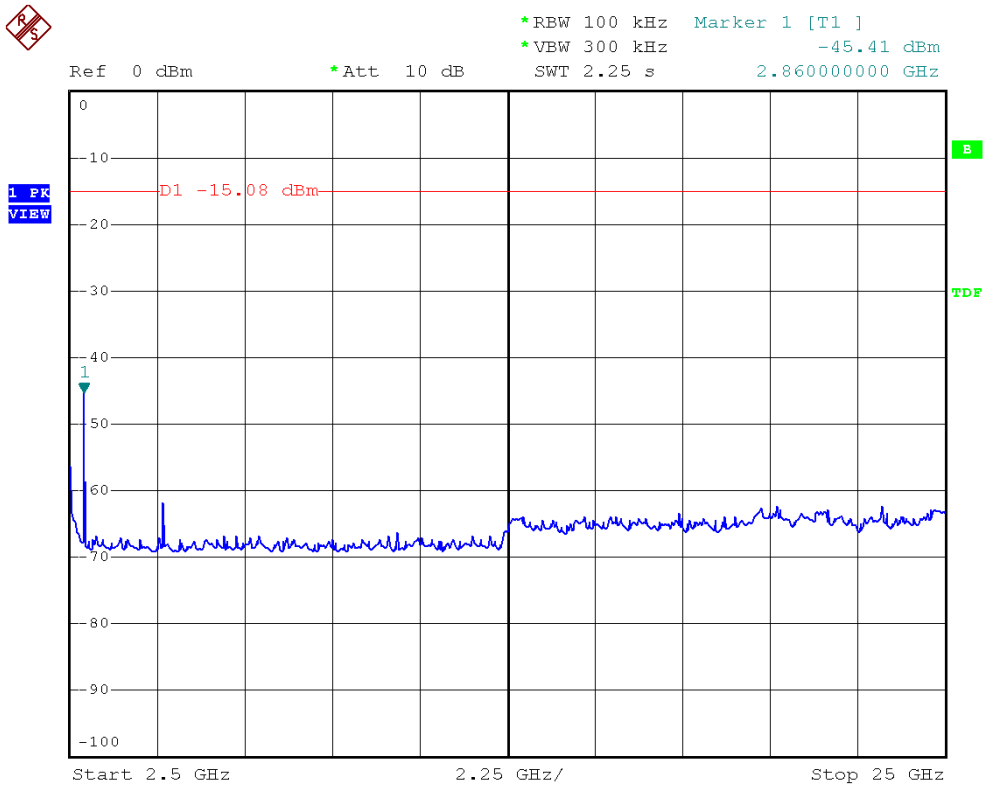
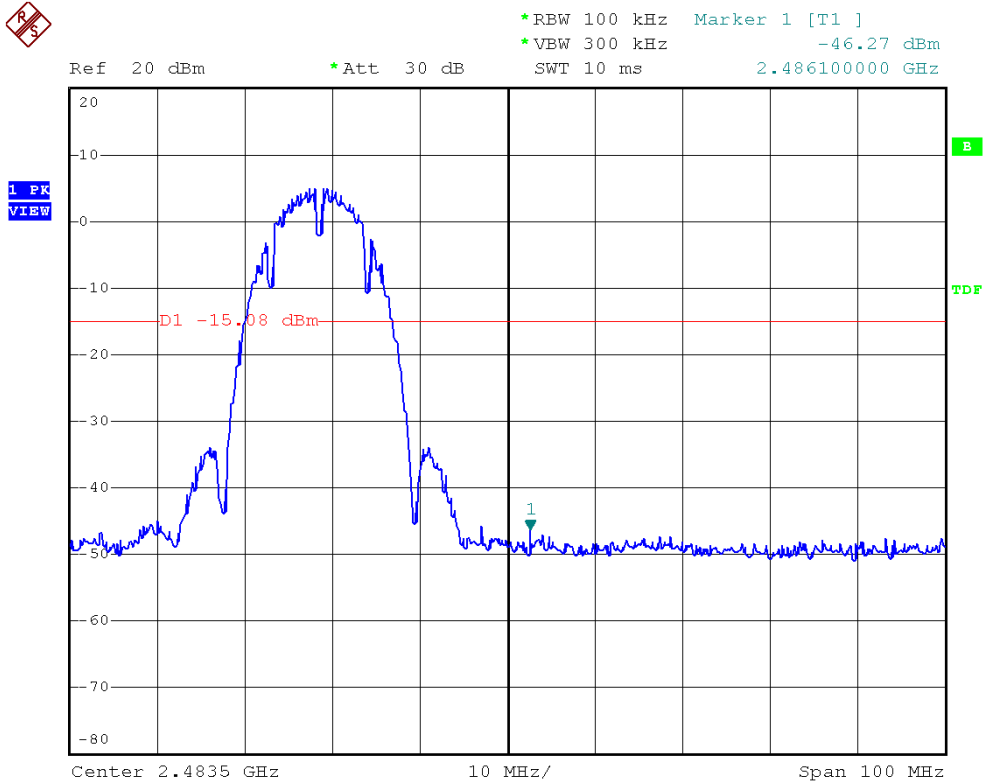
Ref 0 dBm *Att 10 dB



Start 2.5 GHz 2.25 GHz/ Stop 25 GHz



Modulation Standard: 802.11b (11Mbps)
Channel: 11

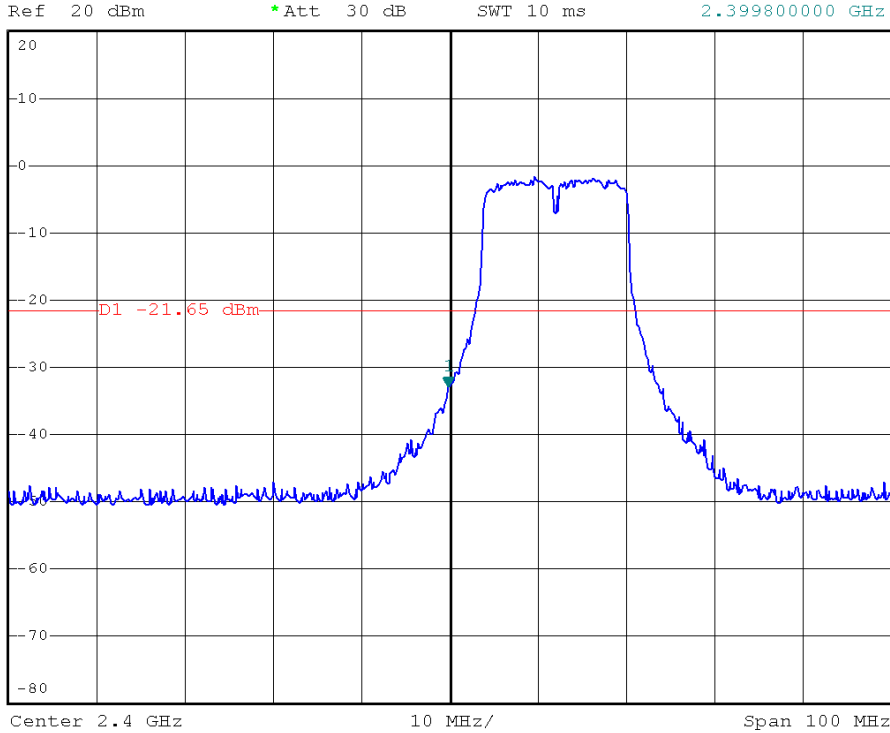




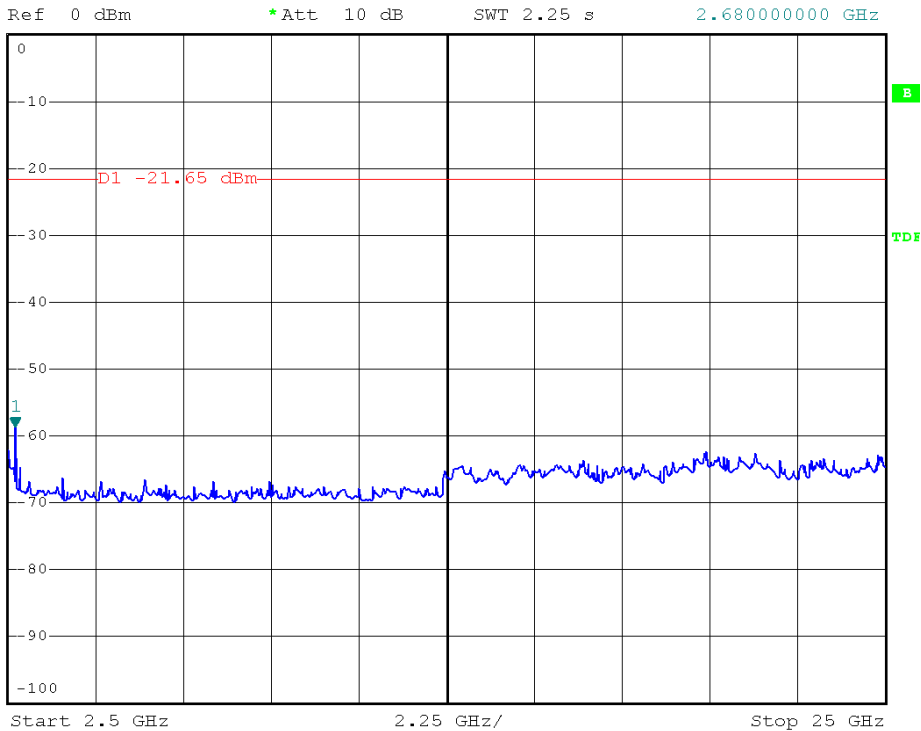
Modulation Standard: 802.11g (54Mbps)
Channel: 01



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz -32.88 dBm
SWT 10 ms 2.399800000 GHz

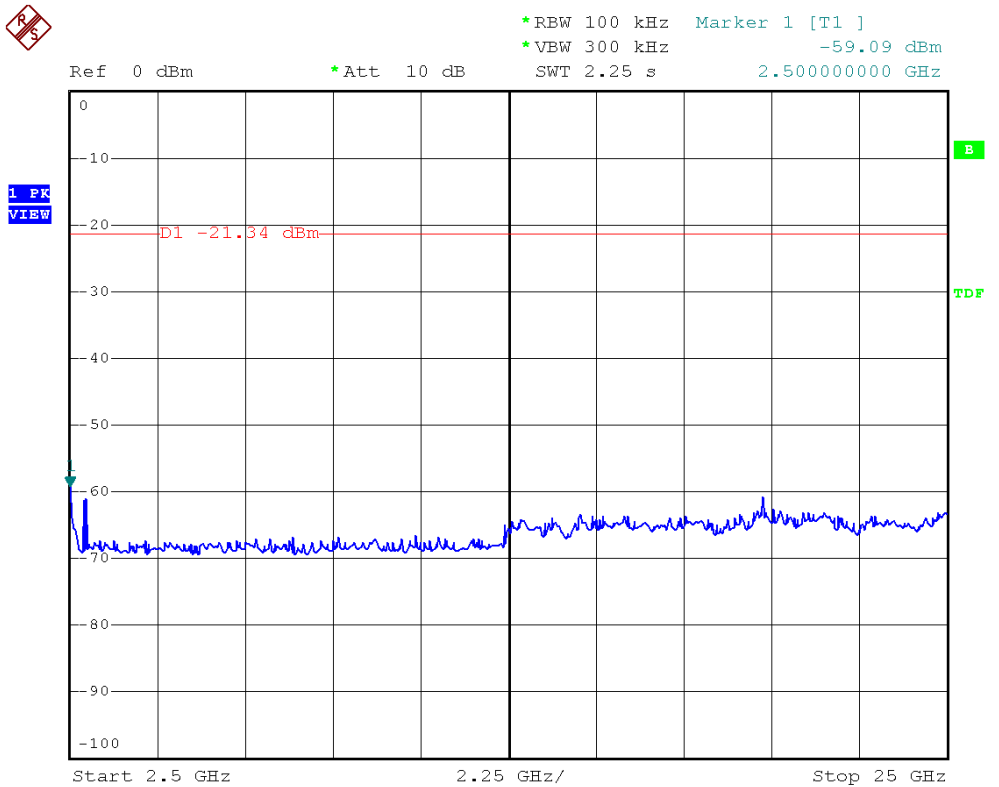
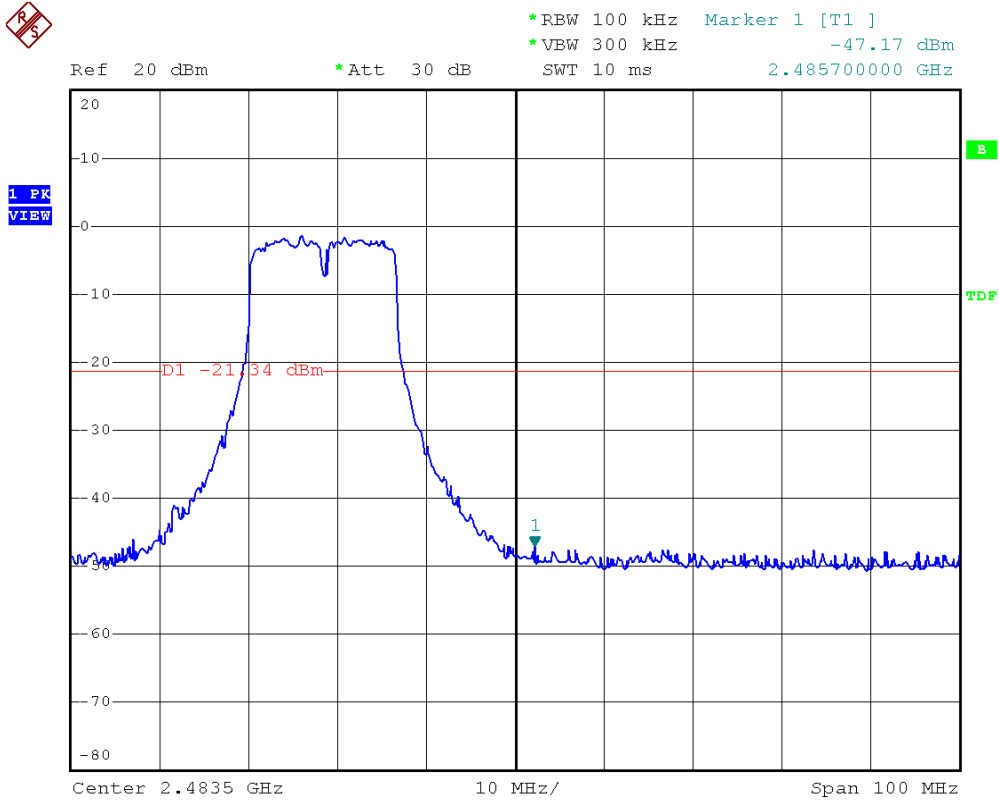


*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz -58.55 dBm
SWT 2.25 s 2.680000000 GHz





Modulation Standard: 802.11g (54Mbps)
Channel: 11

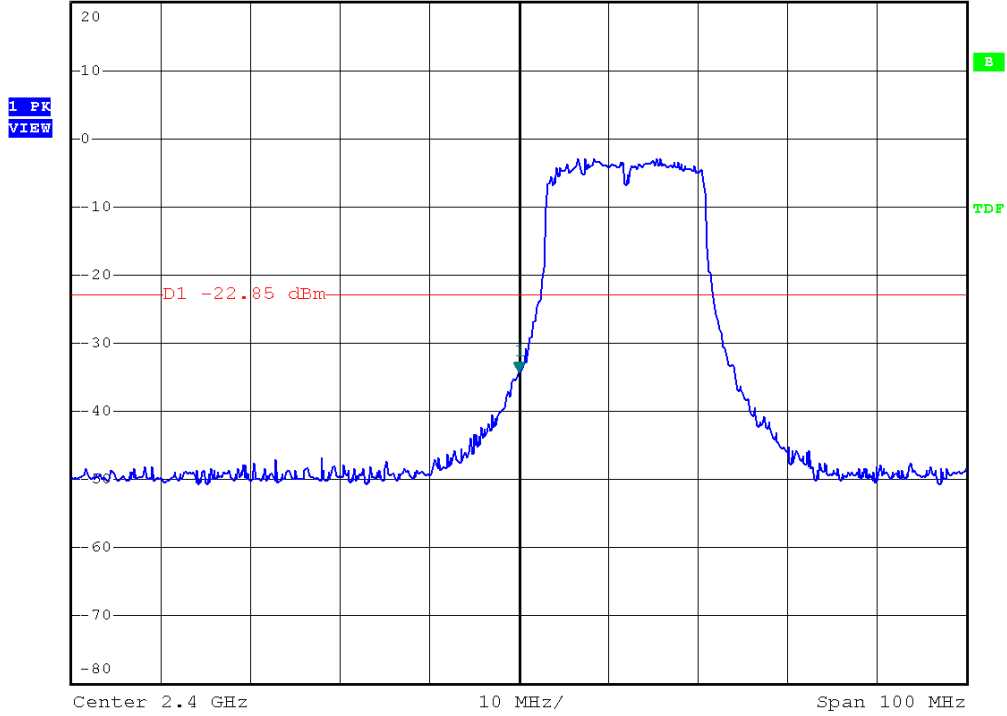




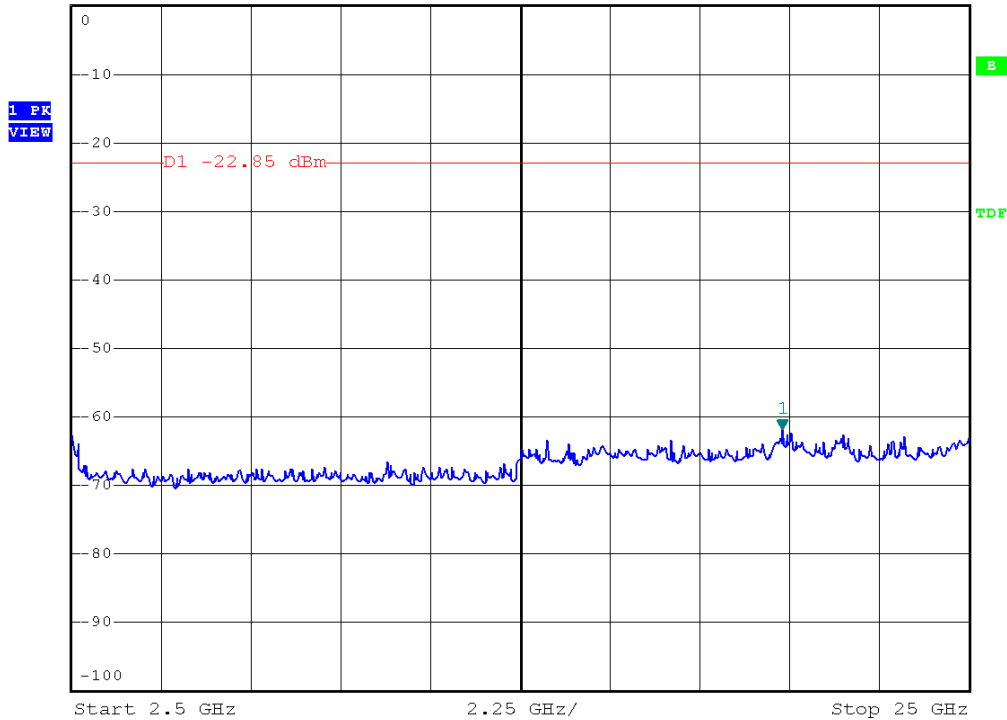
Modulation Standard: 802.11n HT20 (6.5Mbps)
Channel: 01



Ref 20 dBm *Att 30 dB *RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz -34.26 dBm
SWT 10 ms 2.400000000 GHz



Ref 0 dBm *Att 10 dB *RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz -61.76 dBm
SWT 2.25 s 20.320000000 GHz

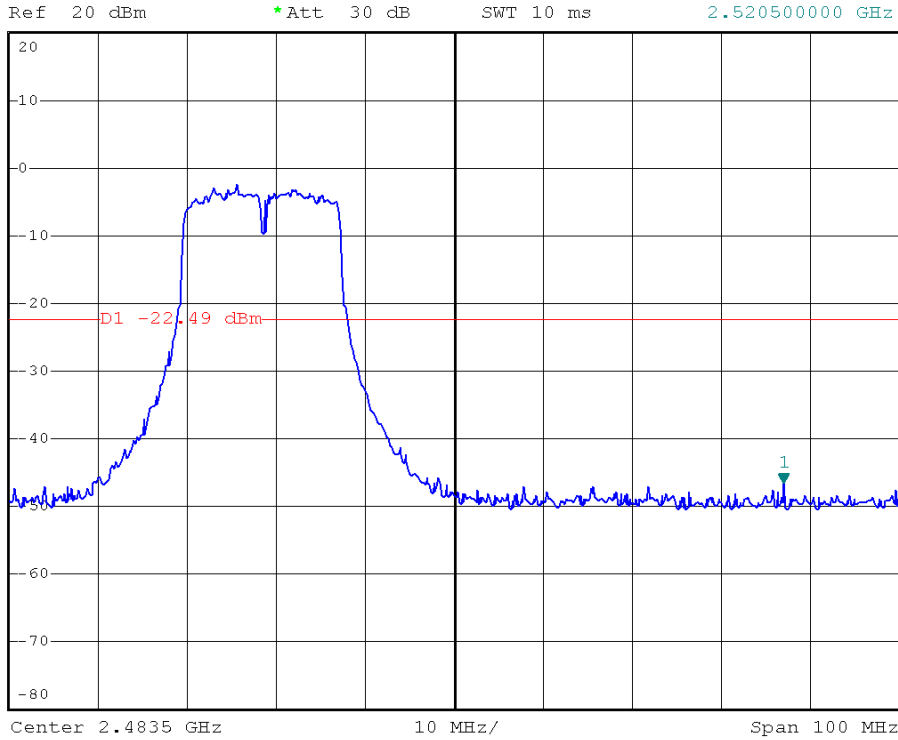




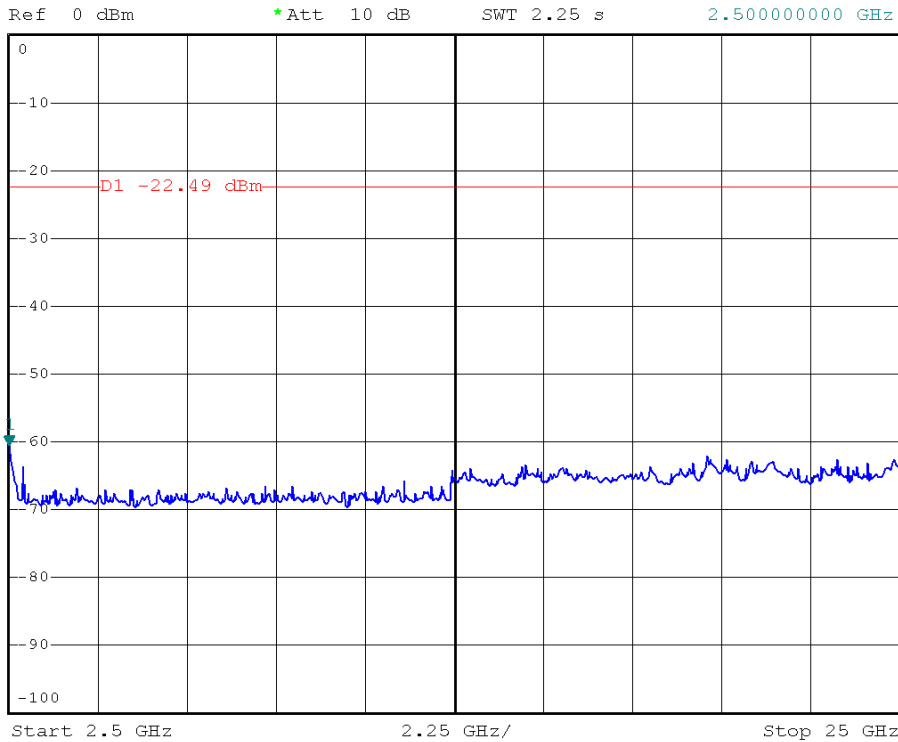
Modulation Standard: 802.11n HT20 (6.5Mbps)
Channel: 11



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz -46.65 dBm
SWT 10 ms 2.520500000 GHz



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz -60.63 dBm
SWT 2.25 s 2.500000000 GHz

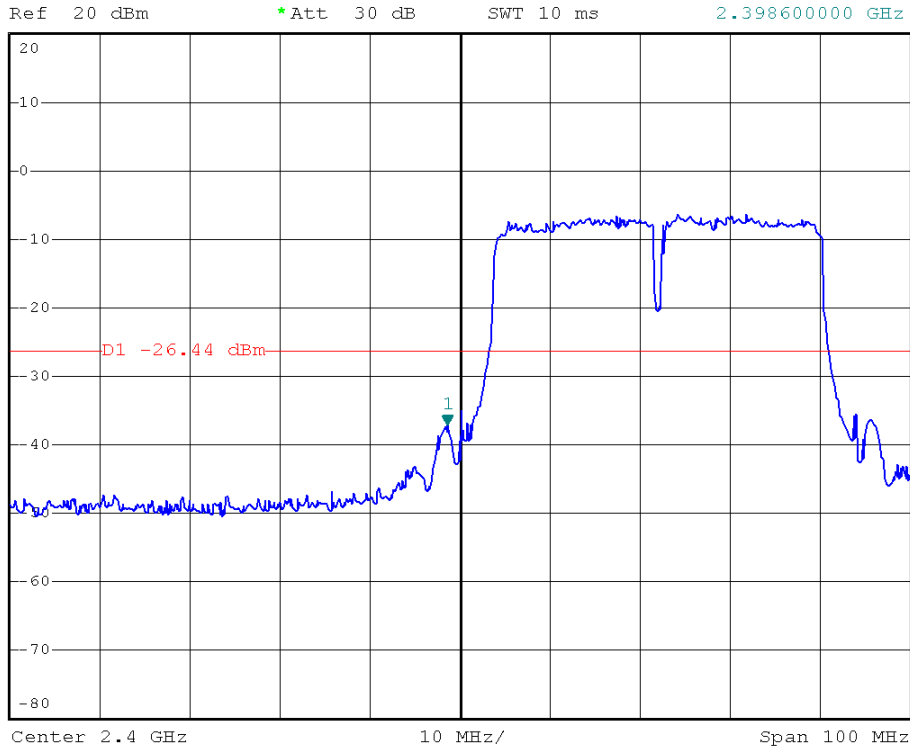




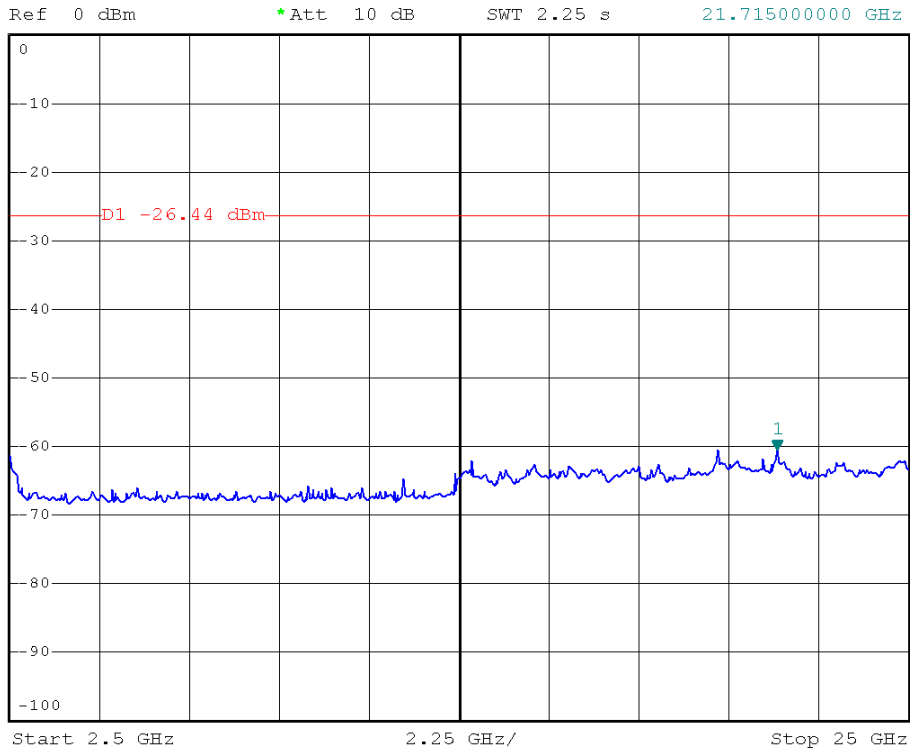
Modulation Standard: 802.11n HT40 (13.5Mbps)
Channel: 03



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz -37.06 dBm
SWT 10 ms 2.398600000 GHz



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz -60.60 dBm
SWT 2.25 s 21.715000000 GHz

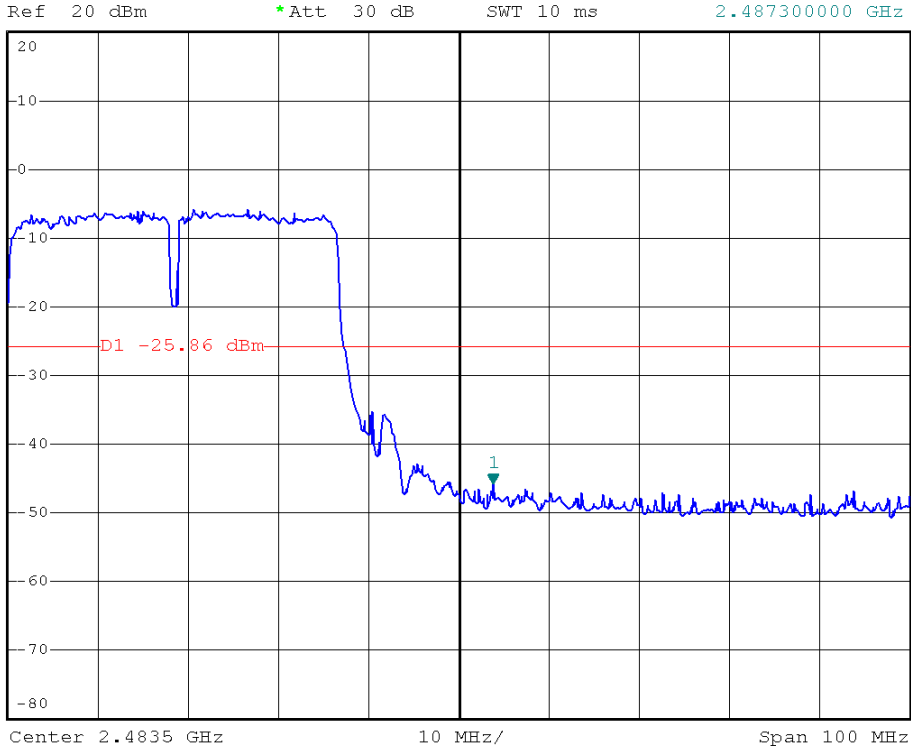




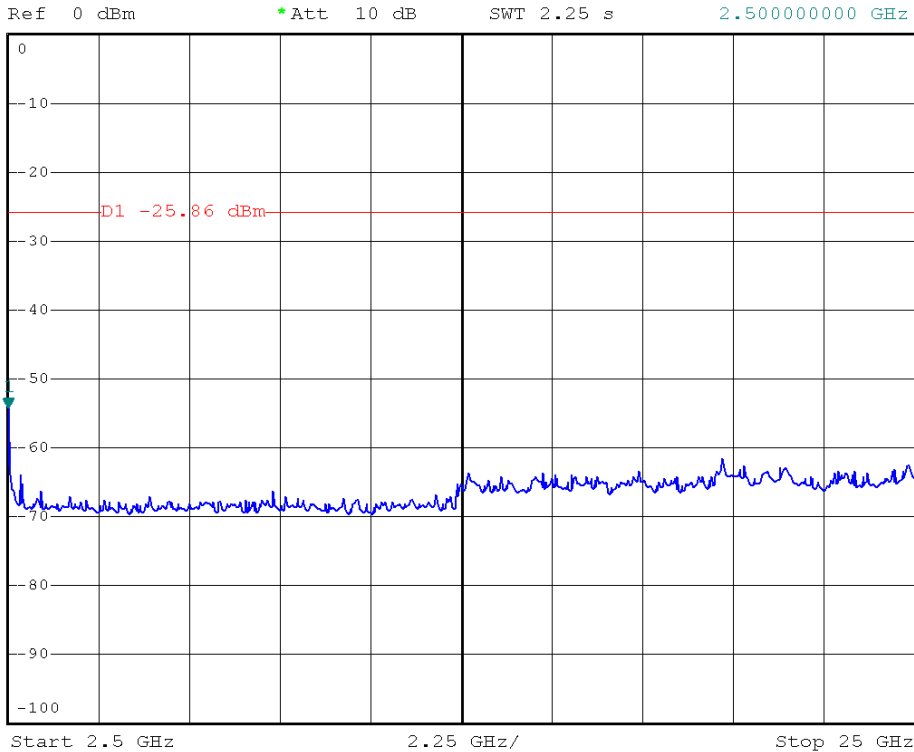
Modulation Standard: 802.11n HT40 (13.5Mbps)
Channel: 09



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz -45.79 dBm
SWT 10 ms 2.487300000 GHz



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz -54.32 dBm
SWT 2.25 s 2.500000000 GHz





9.6 Restrict Band Emission Measurement Data

Adapter: Delta / ADP-40TH-BB

Test Date: Feb. 16, 2012

Temperature: 20°C

Atmospheric pressure: 1020 hPa

Humidity: 68%

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			
2389.76	H	50.49	1.62	52.11	Peak	74	54	-21.89	292	1.30
---	H	---	---	---	Ave	74	54	---	---	---
2323.77	V	49.80	3.34	53.14	Peak	74	54	-20.86	171	1.30
---	V	---	---	---	Ave	74	54	---	---	---
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			
2493.08	H	50.30	0.15	50.45	Peak	74	54	-23.55	286	1.30
---	H	---	---	---	Ave	74	54	---	---	---
2485.63	V	49.79	-2.46	47.33	Peak	74	54	-26.67	235	1.30
---	V	---	---	---	Ave	74	54	---	---	---

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			
2312.40	H	50.35	1.94	52.29	Peak	74	54	-21.71	309	1.30
---	H	---	---	---	Ave	74	54	---	---	---
2372.22	V	50.15	2.55	52.70	Peak	74	54	-21.30	171	1.30
---	V	---	---	---	Ave	74	54	---	---	---
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			
2483.96	H	59.53	0.29	59.82	Peak	74	54	-14.18	288	1.30
2483.85	H	41.27	0.29	41.56	Ave	74	54	-12.44	288	1.30
2483.58	V	57.59	-2.35	55.24	Peak	74	54	-18.76	233	1.30
2483.75	V	39.85	-2.36	37.49	Ave	74	54	-16.51	233	1.30



Modulation Standard: IEEE 802.11n HT20 (6.5Mbps)

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			
2315.10	H	49.48	1.93	51.41	Peak	74	54	-22.59	309	1.30
---	H	---	---	---	Ave	74	54	---	---	---
2316.32	V	49.23	3.47	52.70	Peak	74	54	-21.30	168	1.30
---	V	---	---	---	Ave	74	54	---	---	---

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			
2483.73	H	56.56	0.29	56.85	Peak	74	54	-17.15	298	1.30
2484.23	H	38.73	0.29	39.02	Ave	74	54	-14.98	298	1.30
2483.66	V	55.26	-2.36	52.90	Peak	74	54	-21.10	235	1.30
---	V	---	---	---	Ave	74	54	---	---	---

Modulation Standard: IEEE 802.11n HT40 (13.5Mbps)

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			
2311.53	H	49.65	1.94	51.59	Peak	74	54	-22.41	293	1.30
---	H	---	---	---	Ave	74	54	---	---	---
2312.55	V	49.51	3.54	53.05	Peak	74	54	-20.95	168	1.30
---	V	---	---	---	Ave	74	54	---	---	---

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			
2485.63	H	57.77	0.27	58.04	Peak	74	54	-15.96	301	1.30
2484.04	H	40.62	0.29	40.91	Ave	74	54	-13.09	301	1.30
2487.91	V	58.38	-2.58	55.80	Peak	74	54	-18.20	236	1.30
2484.51	V	41.10	-2.40	38.70	Ave	74	54	-15.30	236	1.30

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.



Adapter: Delta / ADP-18TB-A

Test Date: Feb. 16, 2012

Temperature: 20°C

Atmospheric pressure: 1020 hPa

Humidity: 68%

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			
2389.76	H	50.78	1.62	52.40	Peak	74	54	-21.60	292	1.30
---	H	---	---	---	Ave	74	54	---	---	---
2323.77	V	49.41	3.34	52.75	Peak	74	54	-21.25	171	1.30
---	V	---	---	---	Ave	74	54	---	---	---

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			
2493.08	H	50.74	0.15	50.89	Peak	74	54	-23.11	286	1.30
---	H	---	---	---	Ave	74	54	---	---	---
2485.63	V	49.33	-2.46	46.87	Peak	74	54	-27.13	235	1.30
---	V	---	---	---	Ave	74	54	---	---	---

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			
2312.40	H	50.66	1.94	52.60	Peak	74	54	-21.40	309	1.30
---	H	---	---	---	Ave	74	54	---	---	---
2372.22	V	50.15	2.55	52.70	Peak	74	54	-21.30	171	1.30
---	V	---	---	---	Ave	74	54	---	---	---

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			
2483.96	H	59.35	0.29	59.64	Peak	74	54	-14.36	288	1.30
2483.85	H	41.65	0.29	41.94	Ave	74	54	-12.06	288	1.30
2483.58	V	57.22	-2.35	54.87	Peak	74	54	-19.13	233	1.30
2483.75	V	39.36	-2.36	37.00	Ave	74	54	-17.00	233	1.30



Modulation Standard: IEEE 802.11n HT20 (6.5Mbps)

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			
2315.10	H	49.11	1.93	51.04	Peak	74	54	-22.96	309	1.30
---	H	---	---	---	Ave	74	54	---	---	---
2316.32	V	49.27	3.47	52.74	Peak	74	54	-21.26	168	1.30
---	V	---	---	---	Ave	74	54	---	---	---
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			
2483.73	H	56.77	0.29	57.06	Peak	74	54	-16.94	298	1.30
2484.23	H	38.24	0.29	38.53	Ave	74	54	-15.47	298	1.30
2483.66	V	55.18	-2.36	52.82	Peak	74	54	-21.18	235	1.30
---	V	---	---	---	Ave	74	54	---	---	---

Modulation Standard: IEEE 802.11n HT40 (13.5Mbps)

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			
2311.53	H	49.77	1.94	51.71	Peak	74	54	-22.29	293	1.30
---	H	---	---	---	Ave	74	54	---	---	---
2312.55	V	49.92	3.54	53.46	Peak	74	54	-20.54	168	1.30
---	V	---	---	---	Ave	74	54	---	---	---
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			
2485.63	H	57.51	0.27	57.78	Peak	74	54	-16.22	301	1.30
2484.04	H	40.13	0.29	40.42	Ave	74	54	-13.58	301	1.30
2487.91	V	58.28	-2.58	55.70	Peak	74	54	-18.30	236	1.30
2484.51	V	41.90	-2.40	39.50	Ave	74	54	-14.50	236	1.30

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.