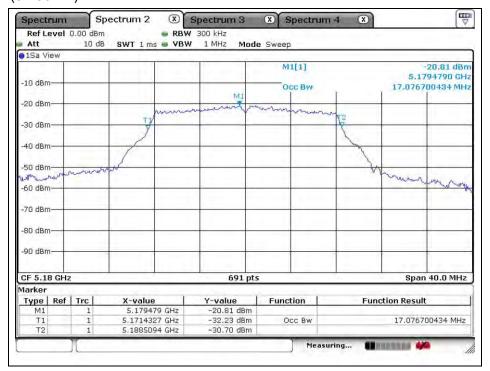


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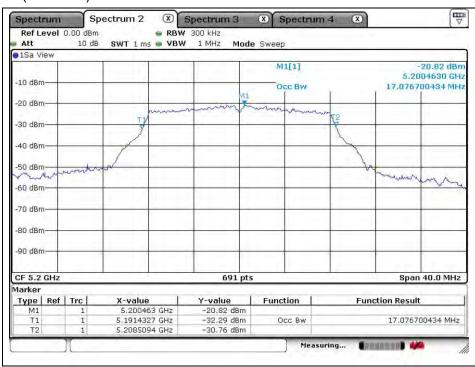
#### 99 % Bandwidth

## 802.11a (Band 1)

Low channel (5 180 账)



## Middle channel (5 200 Mb)

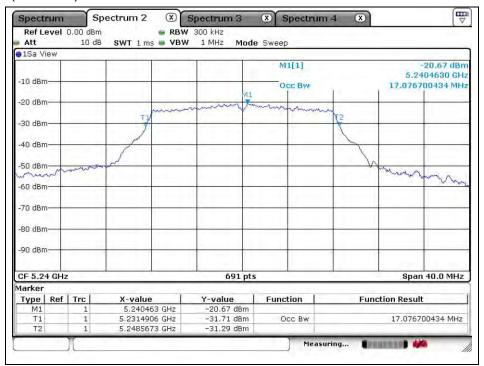


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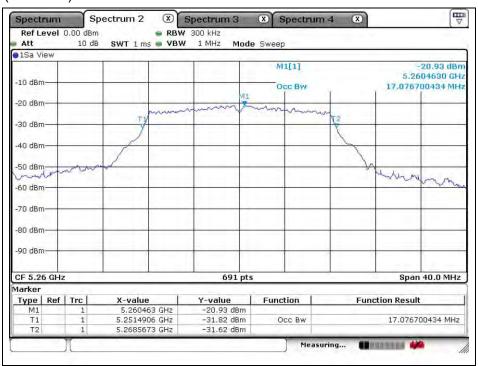


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## High channel (5 240 眦)



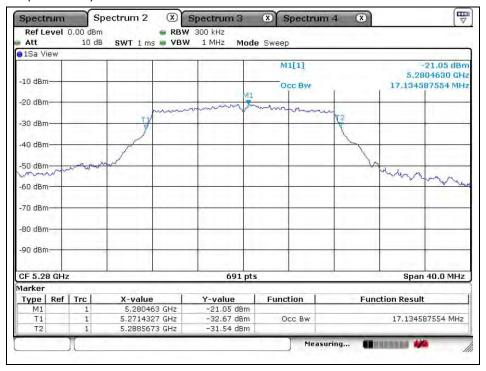
## 802.11a (Band 2A) Low channel (5 260 Mb)



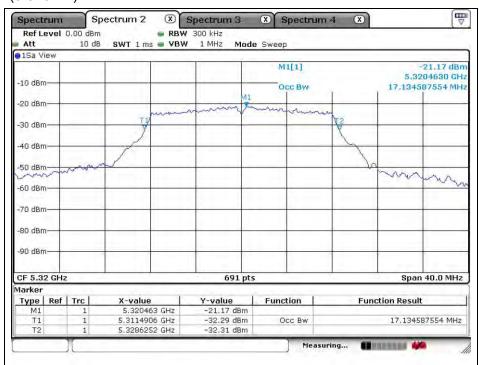


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## Middle channel (5 280 眦)



# High channel (5 320 账)

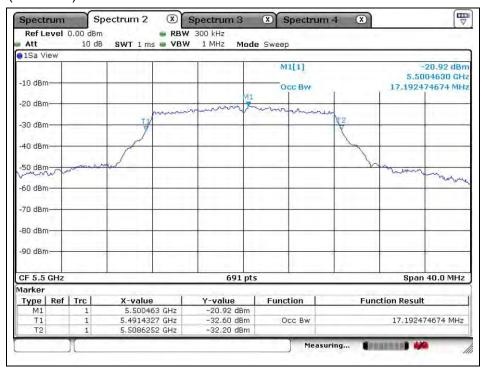




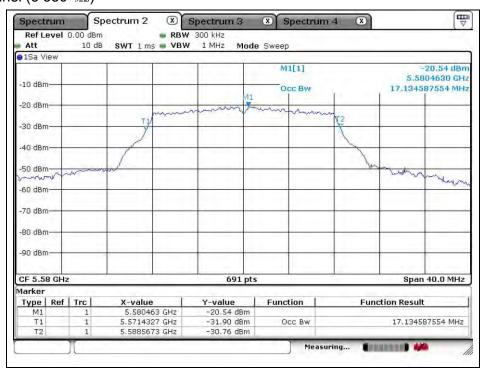
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## 802.11a (Band 2C)

Low channel (5 500 Mb)



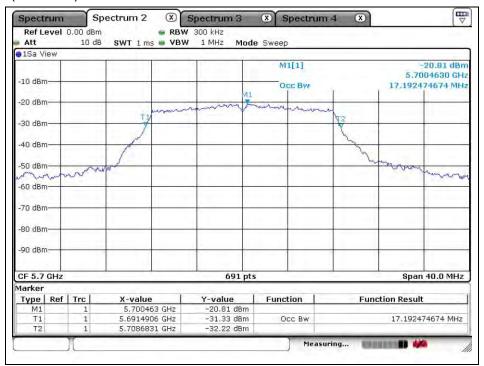
## Middle channel (5 580 Mb)





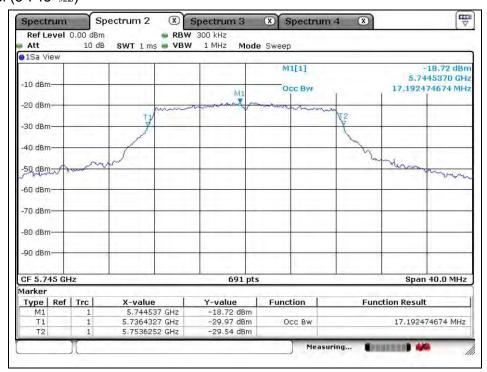
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## High channel (5 700 眦)



## 802.11a (Band 3)

Low channel (5 745 Mb)

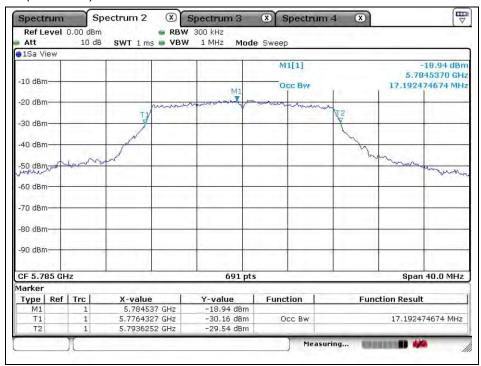


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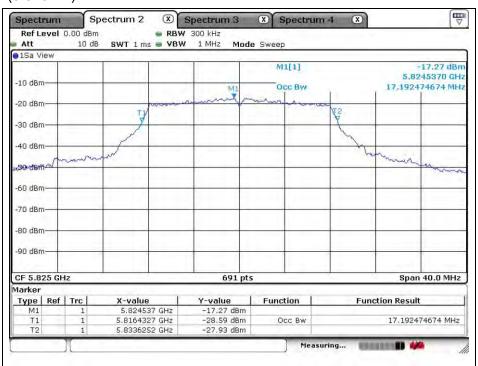


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## Middle channel (5 785 眦)



# High channel (5 825 账)

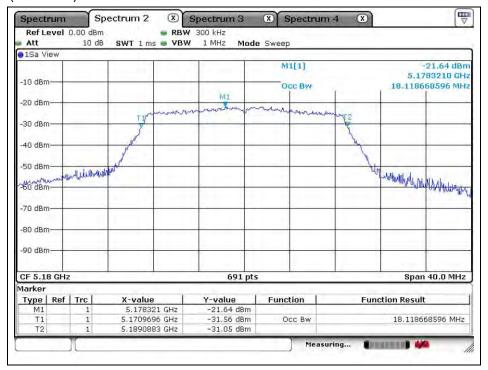




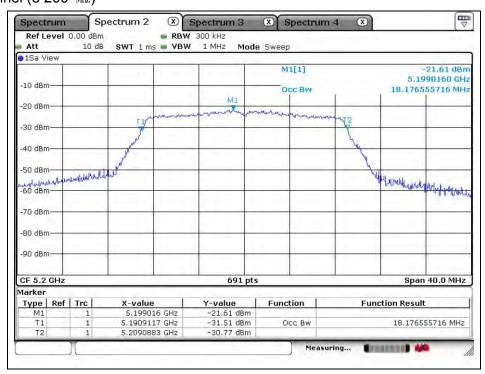
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## 802.11n\_HT20 (Band 1)

Low channel (5 180 贴)



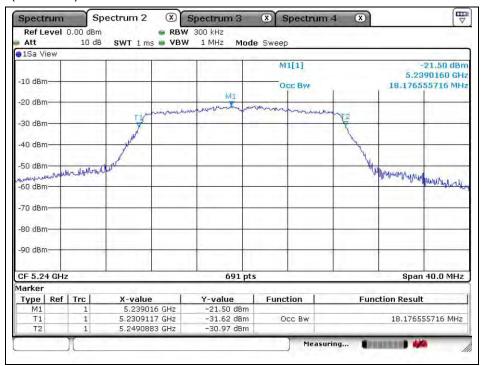
# Middle channel (5 200 Mb)





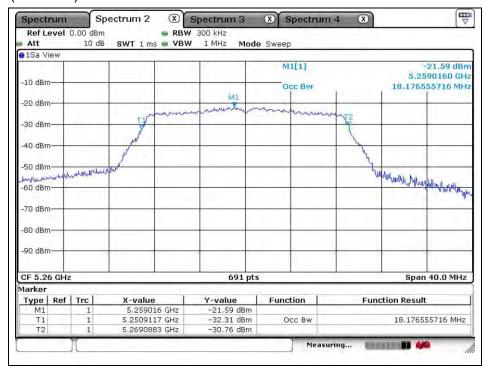
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## High channel (5 240 眦)



# 802.11n\_HT20 (Band 2A)

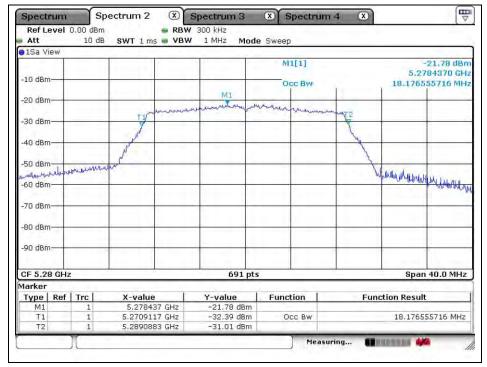
Low channel (5 260 Mb)



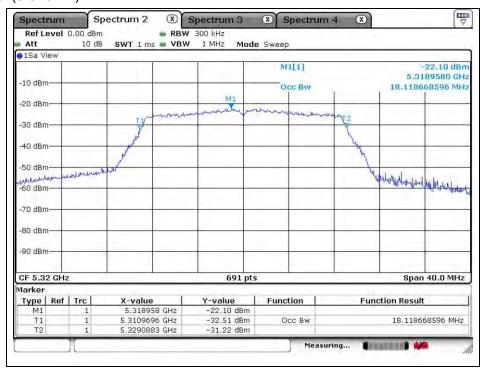


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# Middle channel (5 280 Mb)



# High channel (5 320 账)

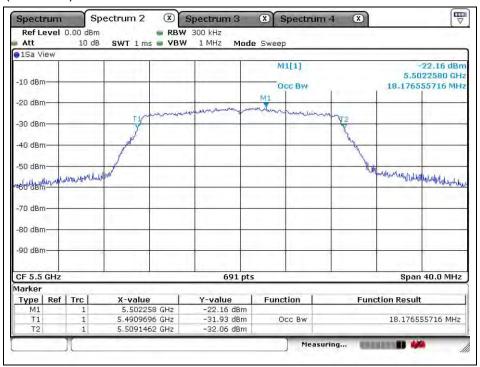




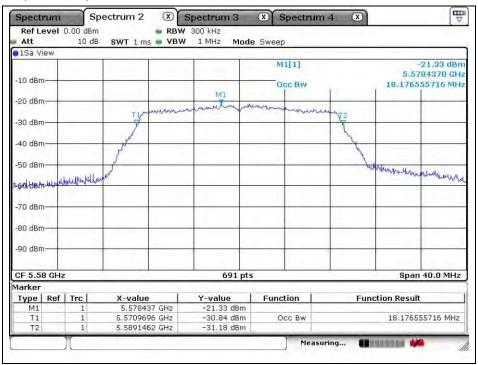
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## 802.11n\_HT20 (Band 2C)

Low channel (5 500 Mb)



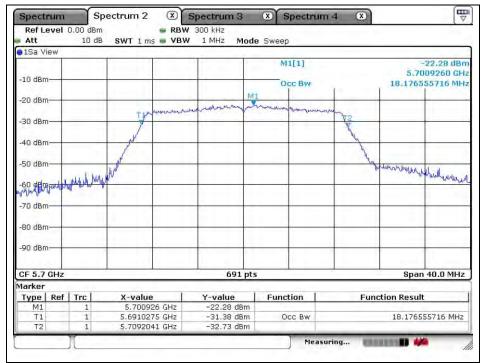
# Middle channel (5 580 账)





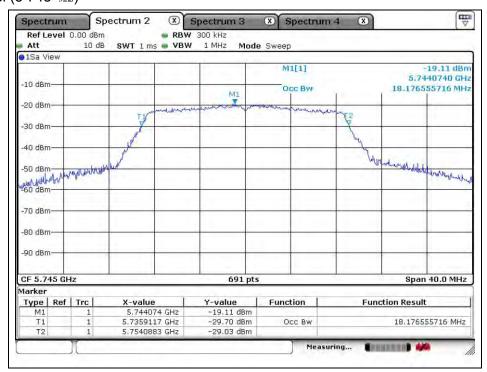
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# High channel (5 700 眦)



# 802.11n\_HT20 (Band 3)

Low channel (5 745 Mb)

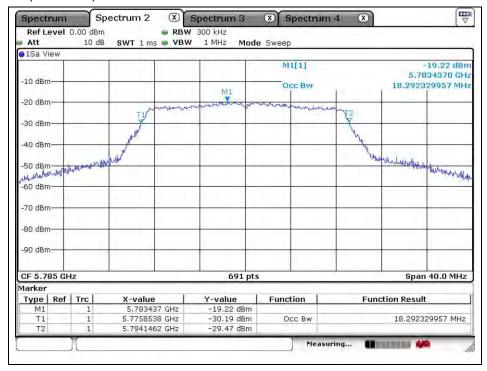


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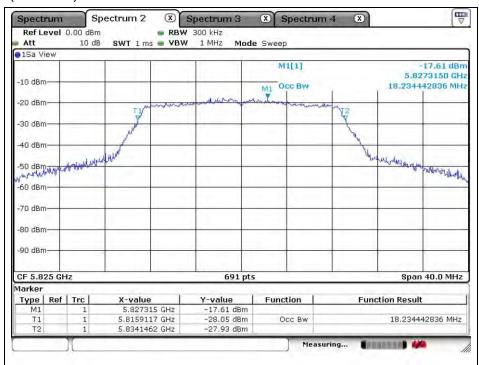


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## Middle channel (5 785 眦)



# High channel (5 825 账)

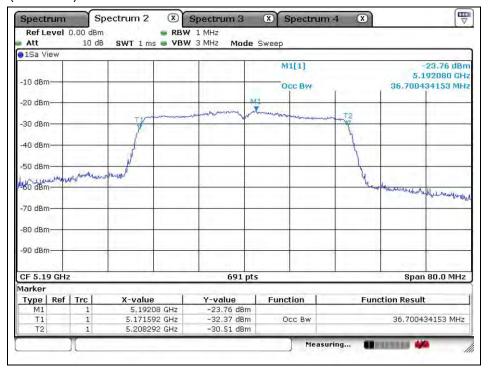




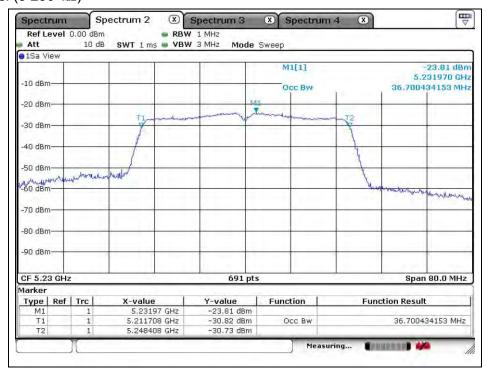
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## 802.11n\_HT40 (Band 1)

Low channel (5 190 贴)



# High channel (5 230 眦)

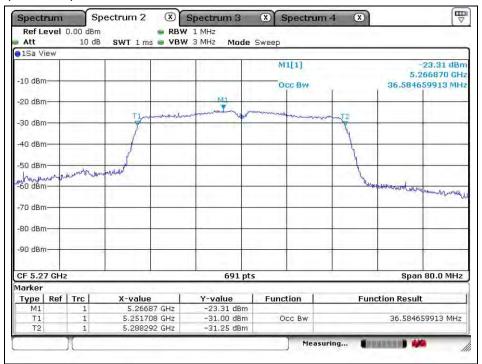




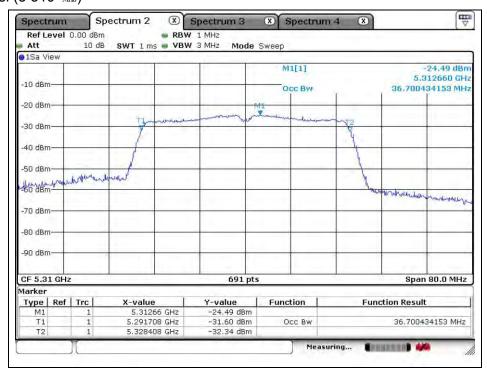
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## 802.11n\_HT40 (Band 2A)

Low channel (5 270 贴)



## High channel (5 310 眦)



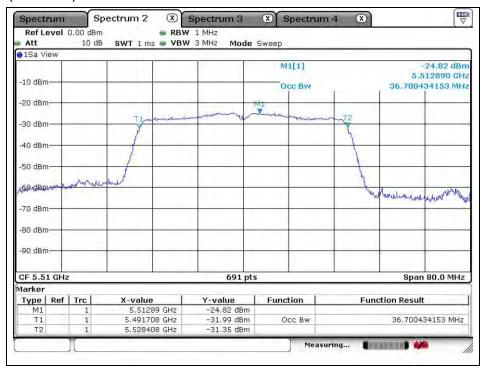
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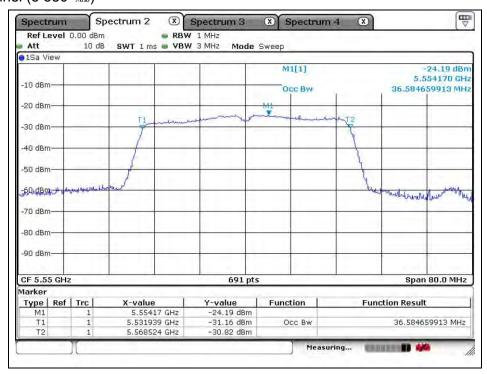
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## 802.11n\_HT40 (Band 2C)

Low channel (5 510 账)



# Middle channel (5 550 账)

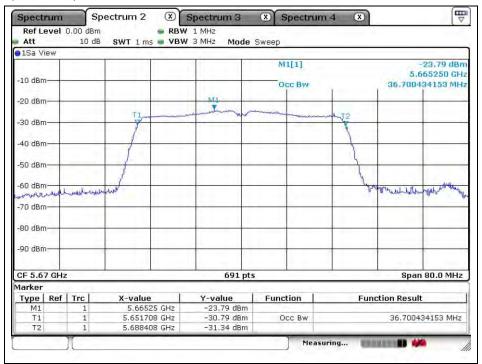


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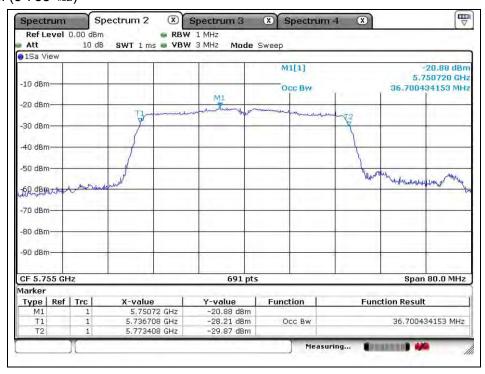
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## High channel (5 670 眦)



## 802.11n\_HT40 (Band 3)

Low channel (5 755 M地)

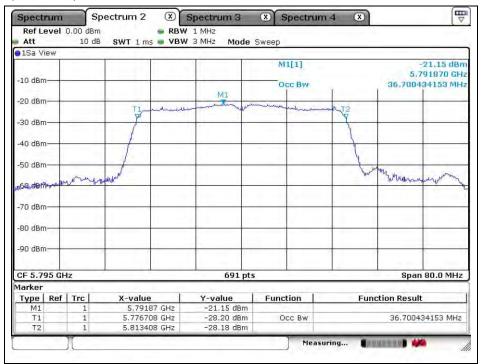


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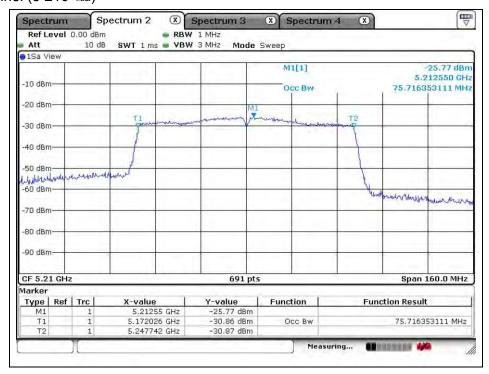
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## High channel (5 795 眦)



## 802. 11ac\_VHT80 (Band 1)

Middle channel (5 210 Mb)



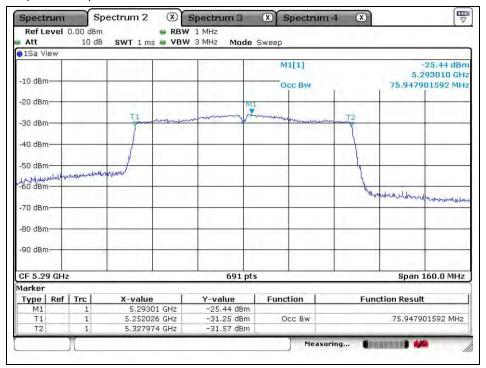
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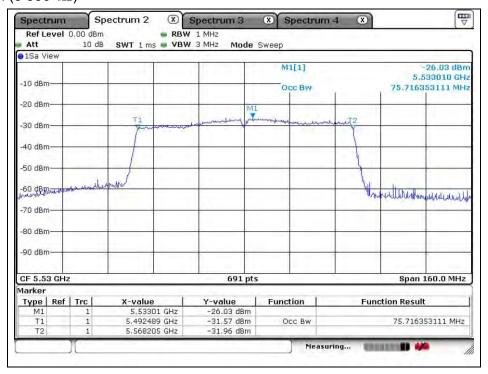
## 802. 11ac\_VHT80 (Band 2A)

Middle channel (5 290 Mb)



## 802. 11ac\_VHT80 (Band 2C)

Low channel (5 530 Mb)



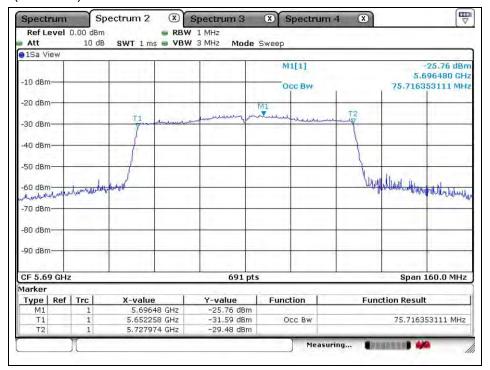
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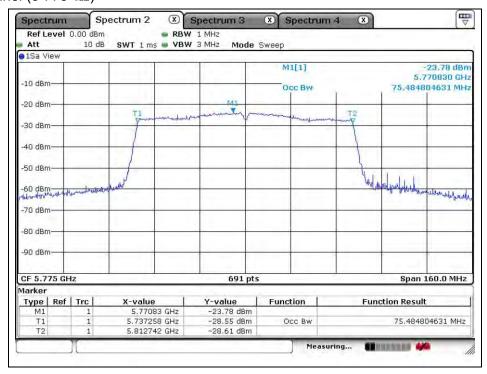
## 802. 11ac\_VHT80 (Band 2C)

High channel (5 690 Mb)



## 802. 11ac\_VHT80 (Band 3)

Middle channel (5 775 Mb)



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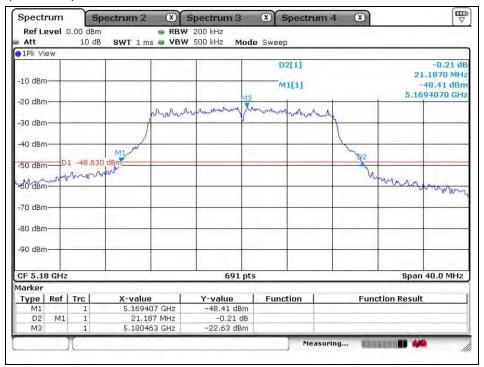


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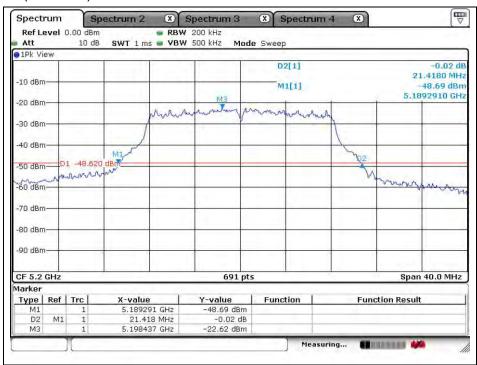
#### 26 dB Bandwidth

#### 802.11a (Band 1)

Low channel (5 180 Mb)



## Middle channel (5 200 Mb)

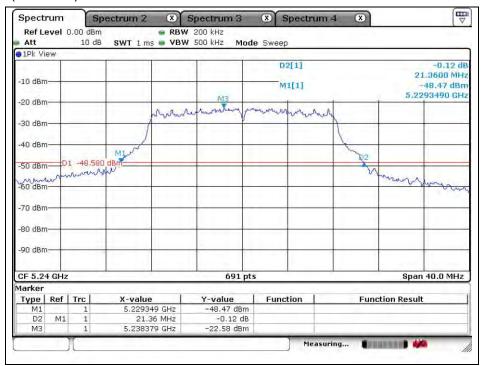


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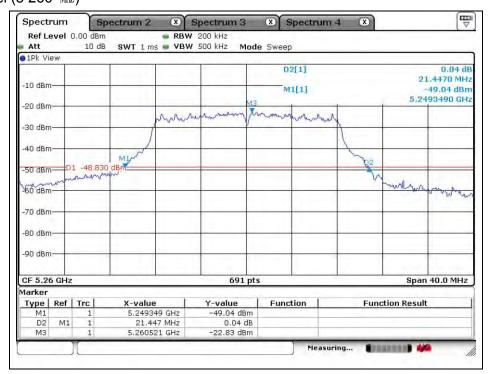
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## High channel (5 240 眦)



## 802.11a (Band 2A)

Low channel (5 260 Mb)

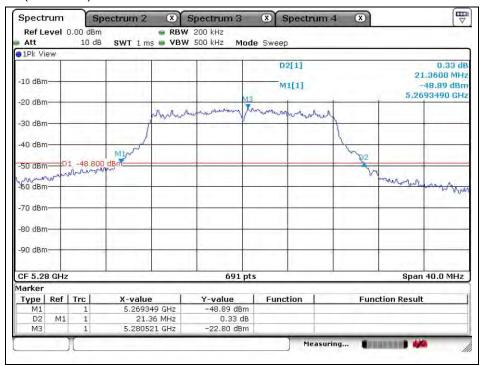


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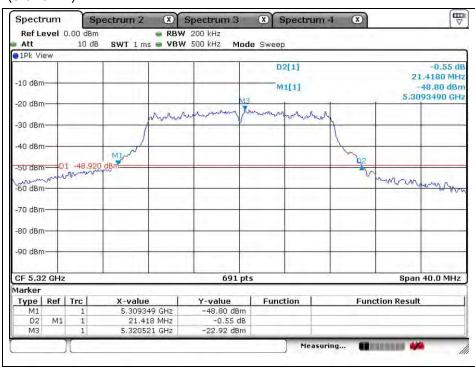


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## Middle channel (5 280 Mb)



# High channel (5 320 账)

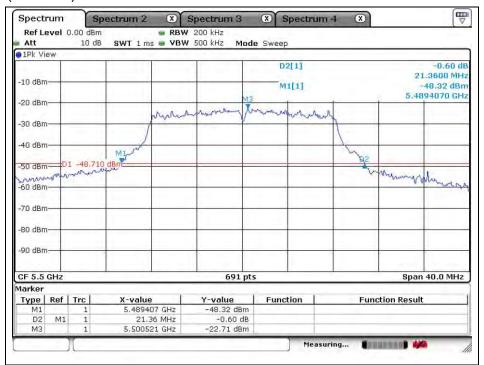




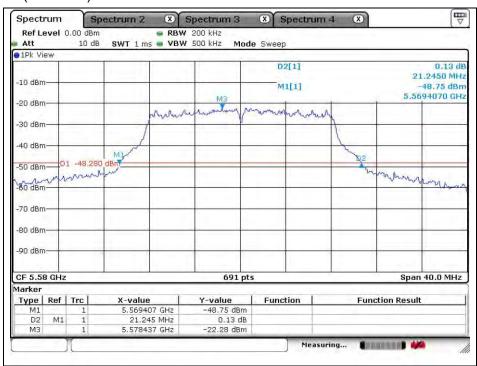
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## 802.11a (Band 2C)

Low channel (5 500 Mb)



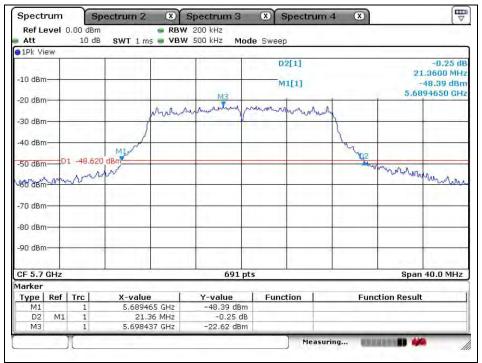
#### Middle channel (5 580 Mb)





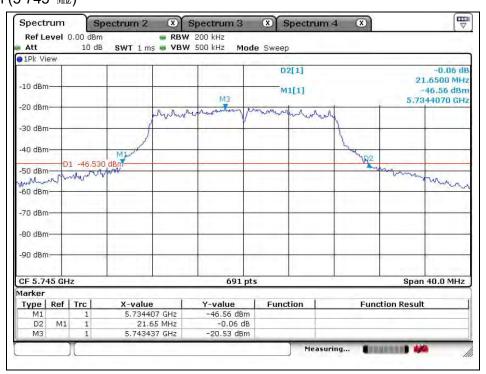
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# High channel (5 700 眦)



## 802.11a (Band 3)

Low channel (5 745 Mb)

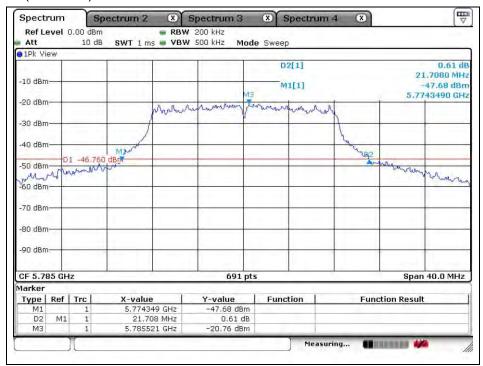


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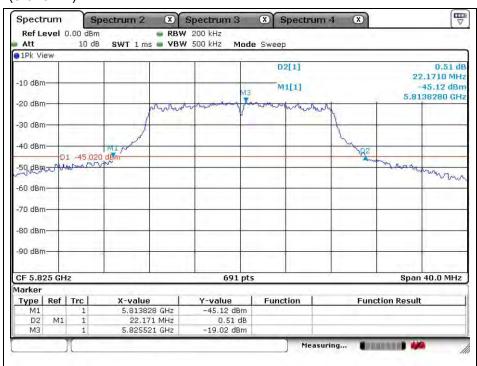


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## Middle channel (5 785 Mb)



# High channel (5 825 账)

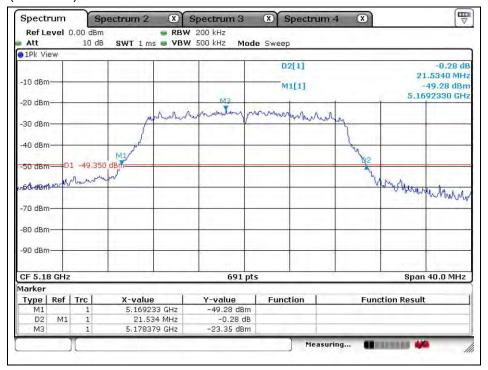




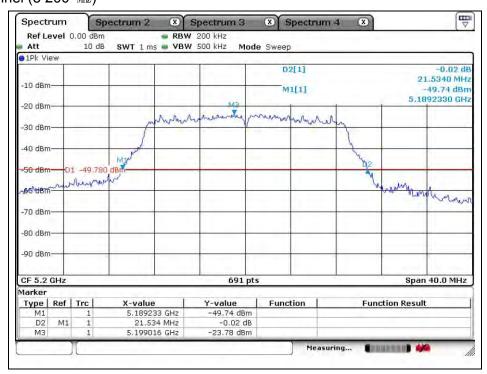
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## 802.11n\_HT20 (Band 1)

Low channel (5 180 Mb)



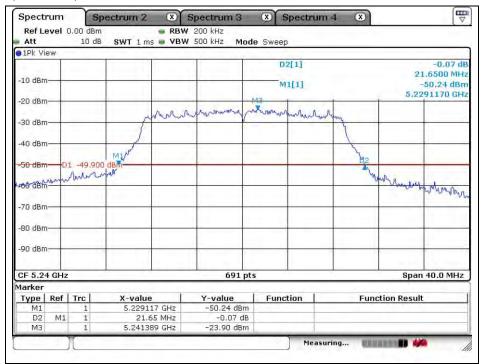
# Middle channel (5 200 Mb)





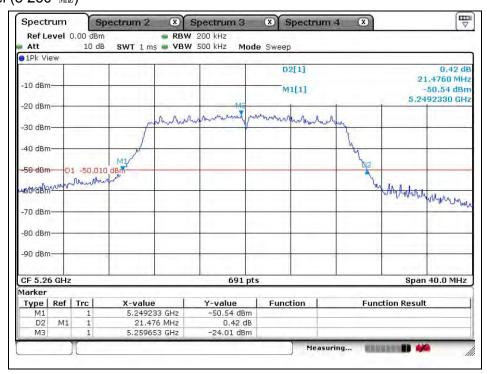
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## High channel (5 240 眦)



# 802.11n\_HT20 (Band 2A)

Low channel (5 260 Mb)

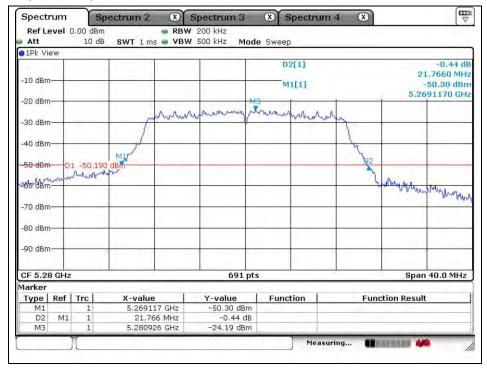


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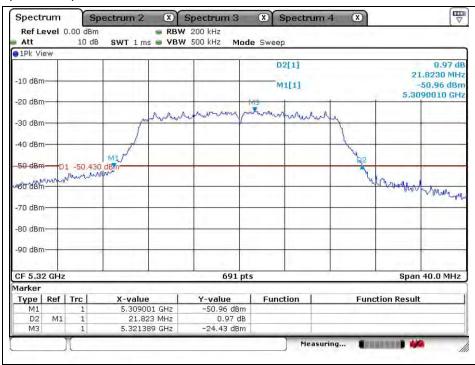


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## Middle channel (5 280 Mb)



# High channel (5 320 账)

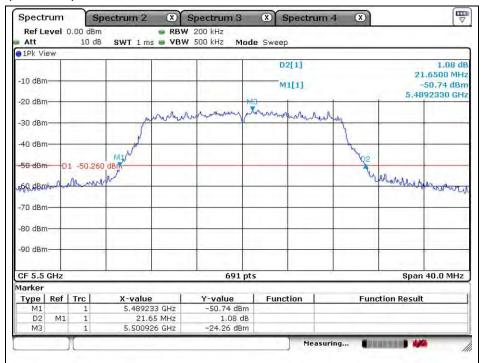




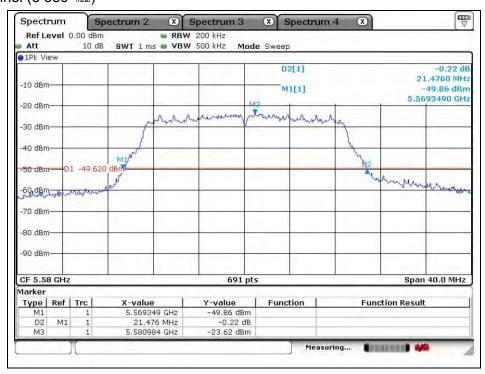
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## 802.11n\_HT20 (Band 2C)

Low channel (5 500 Mb)



## Middle channel (5 580 Mb)

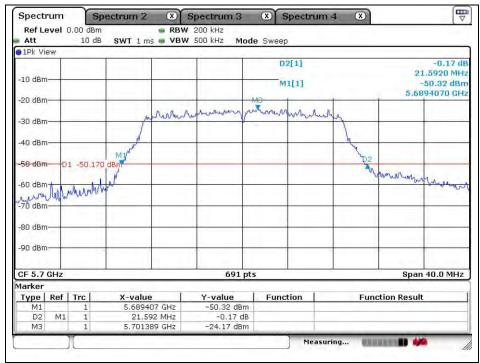


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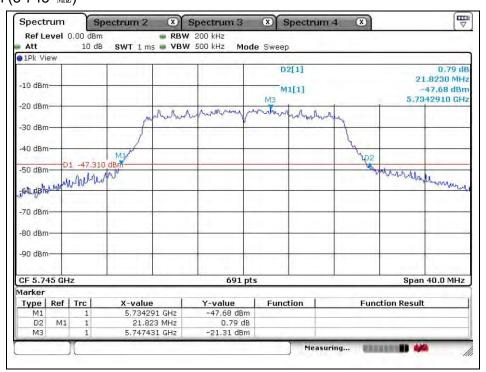
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# High channel (5 700 眦)



# 802.11n\_HT20 (Band 3)

Low channel (5 745 Mb)

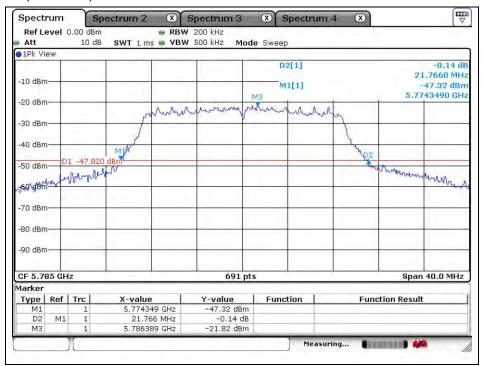


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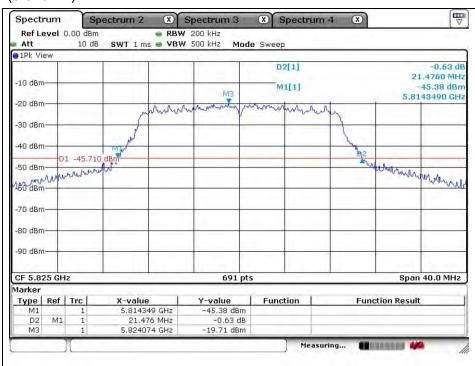


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## Middle channel (5 785 眦)



# High channel (5 825 账)



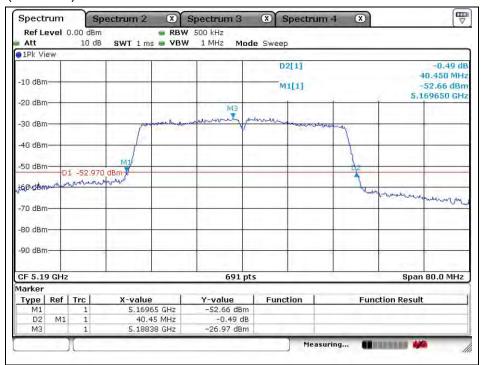
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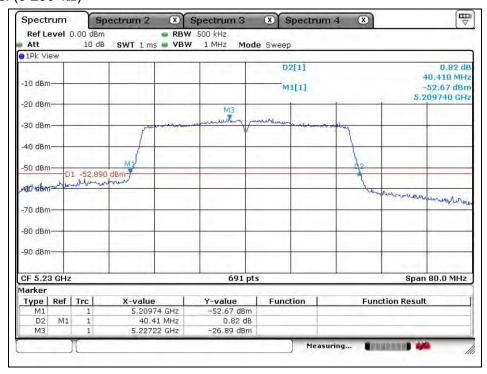
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## 802.11n\_HT40 (Band 1)

Low channel (5 190 M地)



# High channel (5 230 眦)



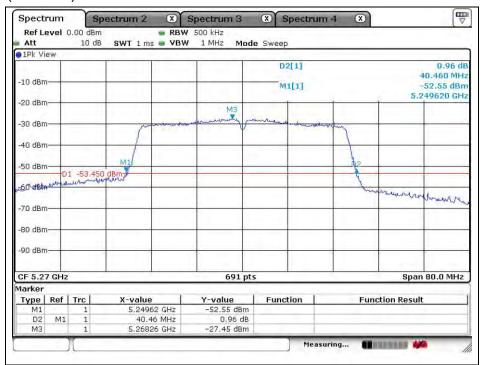
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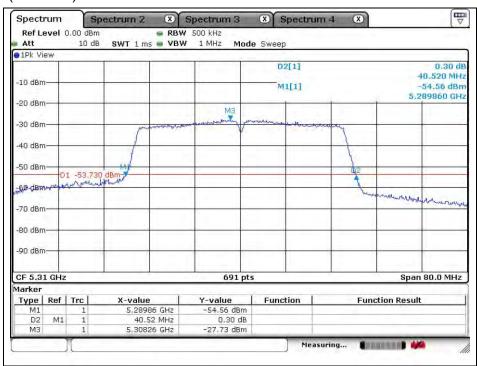
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## 802.11n\_HT40 (Band 2A)

Low channel (5 270 Mb)



## High channel (5 310 眦)



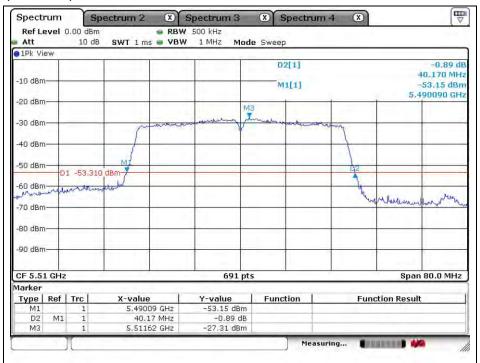
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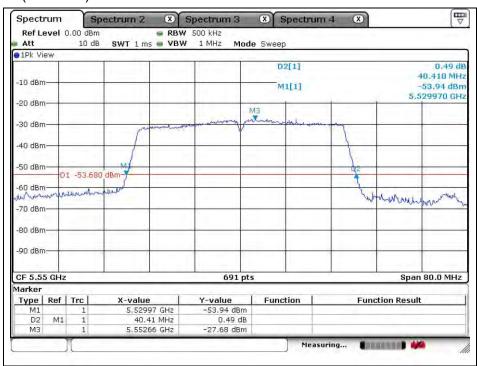
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## 802.11n\_HT40 (Band 2C)

Low channel (5 510 Mz)



#### Middle channel (5 550 Mb)

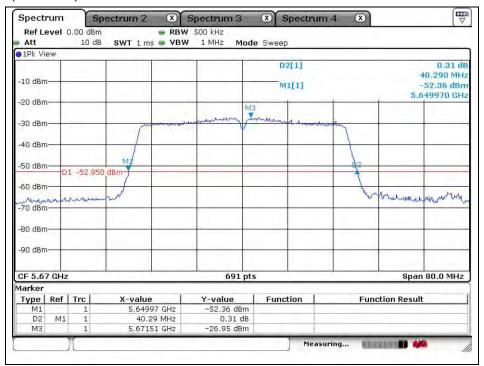


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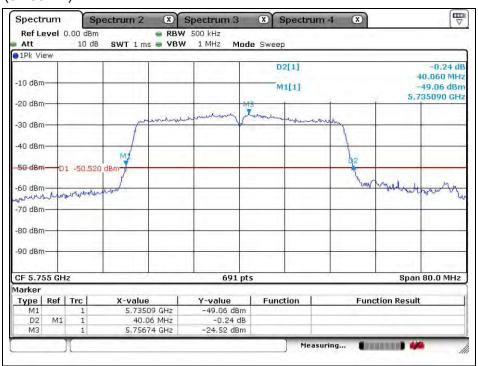
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## High channel (5 670 眦)



# 802.11n\_HT40 (Band 3)

Low channel (5 755 M地)

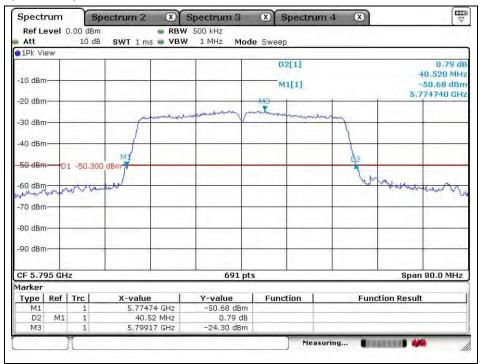


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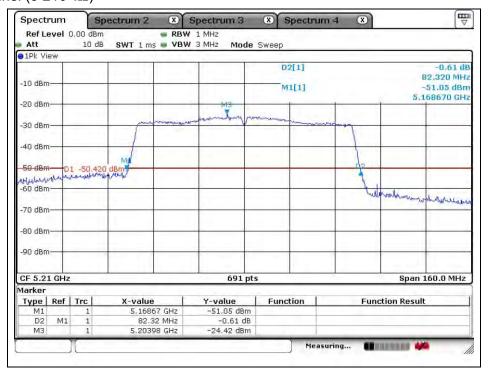
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## High channel (5 795 眦)



## 802.11ac\_VHT80 (Band 1)

Middle channel (5 210 Mb)



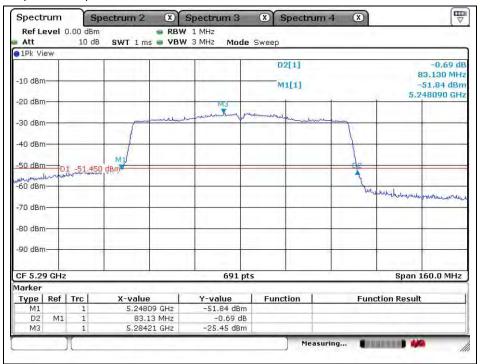
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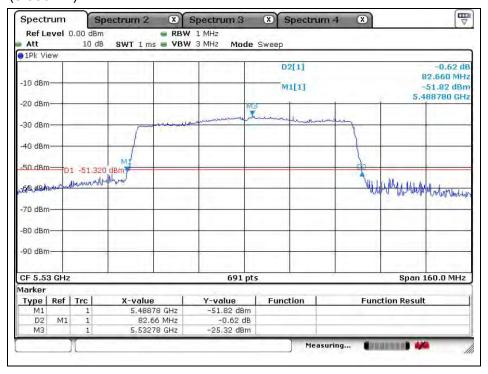
# 802.11ac\_VHT80 (Band 2A)

Middle channel (5 290 Mb)



# 802.11ac\_VHT80 (Band 2C)

Low channel (5 530 Mb)

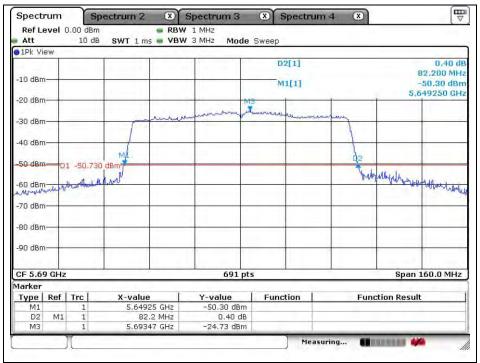


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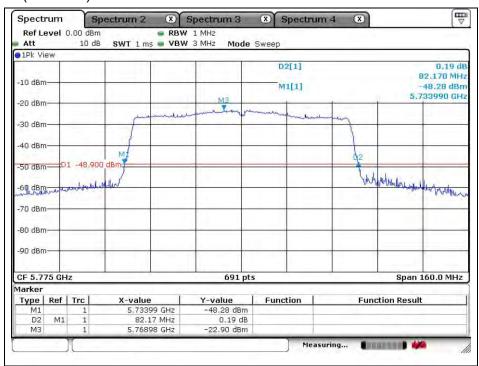
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# High channel (5 690 眦)



# 802. 11ac\_VHT80 (Band 3)

Middle channel (5 775 Mb)



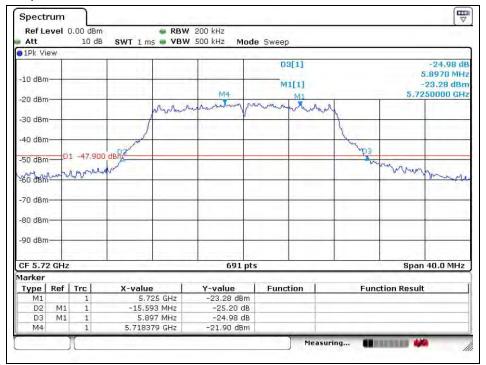
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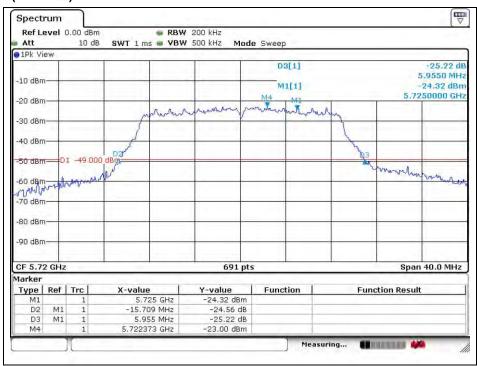
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#### **Band-crossing channels**

# 802.11a (5 720 Mb)



# 802.11n\_HT20 (5 720 Mb)

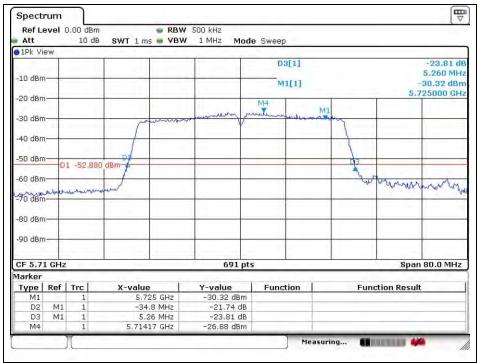


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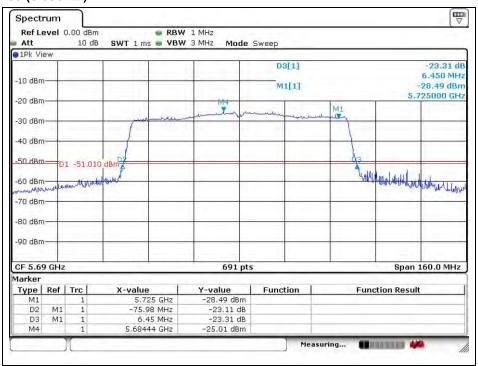


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# 802.11n\_HT40 (5 710 Mb)



# 802.11ac\_VHT80 (5 690 Mb)

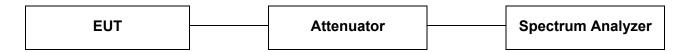




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# 4. 6 dB bandwidth

### 4.1. Test setup



# 4.2. Limit

#### **FCC**

\$15.407(e), Within the 5.725-5.85  $\times$  band, the minimum 6  $\times$  bandwidth of U-NII devices shall be at least 500  $\times$ .

#### IC

RSS-247 Issue 1, 6.2.4(1), for equipment operating in the band 5 725-5 850 Mz the minimum -6 dB Bandwidth shall be at least 500 kz.

# 4.3. Test procedure

All data rates and modes were investigated for this test. The full data for the worst case data rate are reported in this section.

- 1. This measurement settings are specified in section C.2 of KDB 789033\_v01r02.
- 2. Set RBW: 100 kHz.
- 3. Set the video bandwidth (VBW)  $\geq$  3 x RBW.
- 4. Detector = Peak.
- 5. Trace mode = max hold.
- 6. Sweep = auto couple.
- 7. Allow the trace to stabilize.
- 8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6  $\,\mathrm{dB}$  relative to the maximum level measured in the fundamental emission.
- 9. In case of band crossing channels 138, 142 and 144, the measurement is complied with section D of KDB 644545\_D03 v01.



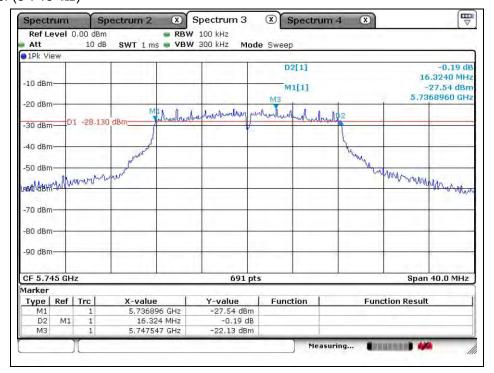
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# 4.4. Test result

Band	Mode	Frequency (Mb)	Ch.	Data Rate (Mbps)	6 dB Bandwidth (Mb)	Minimum Bandwidth (쌦)
		5 745	149	6	16.324	
	11a	5 785	157	6	16.324	
		5 825	165	6	16.324	
		5 745	149	MCS0	17.540	
U-NII 3	11n_HT20	5 785	157	MCS0	17.540	500
		5 825	165	MCS0	17.540	
	11n HT40	5 755	151	MCS0	36.280	
	1111_11140	5 795	159	MCS0	36.240	
	11ac_VHT80	5 775	155	MCS0	75.690	
U-NII 3	11a	5 720	144	6	3.220	
(Band-	11n_HT20	5 720	144	MCS0	3.857	
Crossing	11n_HT40	5 710	142	MCS0	3.280	
channels)	11ac_VHT80	5 690	138	MCS0	3.280	

# 802.11a (Band 3)

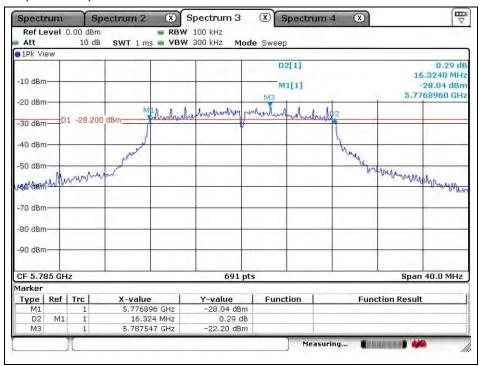
Low channel (5 745 Mb)



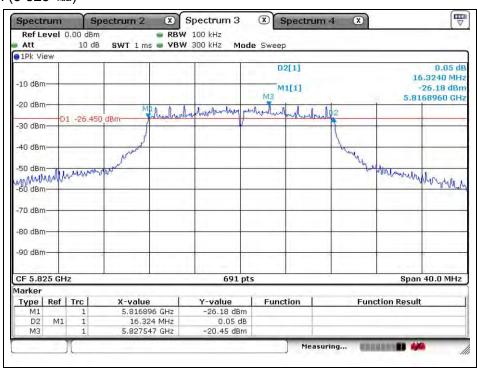


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# Middle channel (5 785 眦)



# High channel (5 825 账)

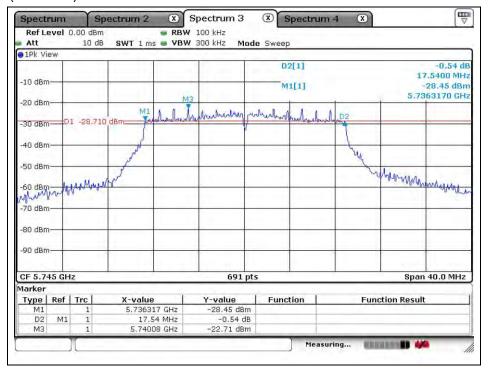




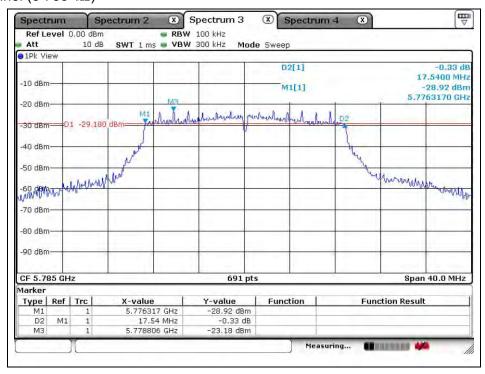
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# 802.11n\_HT20 (Band 3)

Low channel (5 745 贴)



# Middle channel (5 785 账)

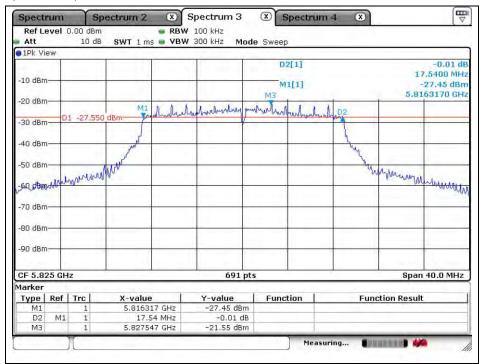


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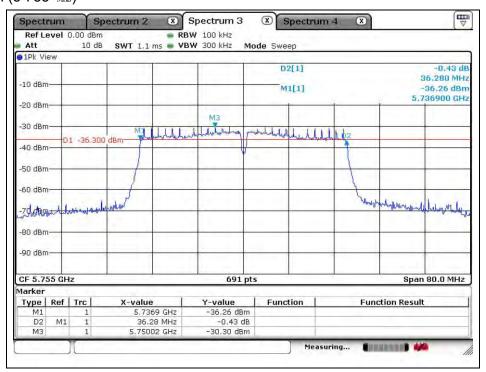
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# High channel (5 825 眦)



# 802.11n\_HT40 (Band 3)

Low channel (5 755 Mb)

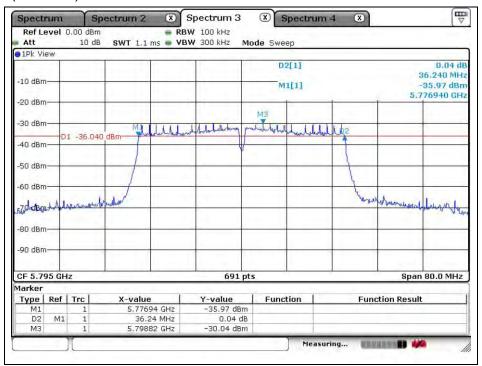


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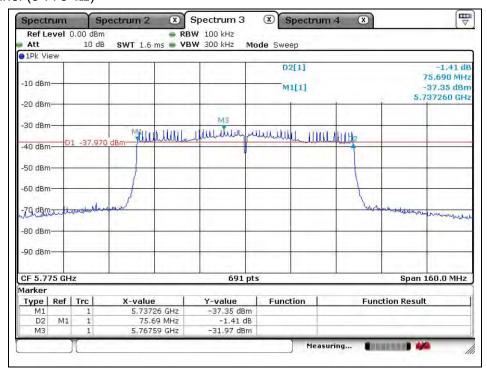
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# High channel (5 795 Mb)



# 802.11ac\_VHT80 (Band 3)

Middle channel (5 775 Mb)



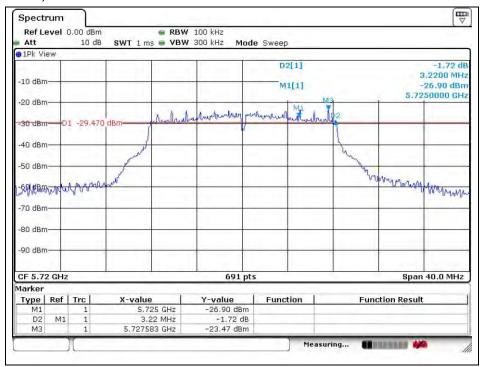
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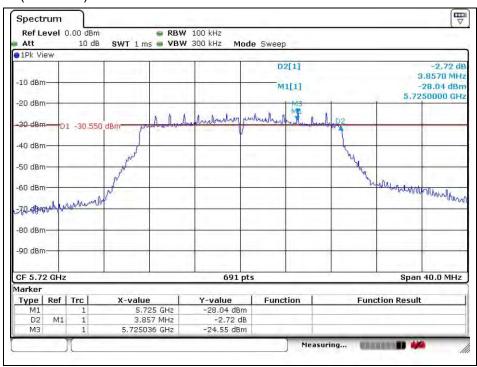
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#### **Band-crossing channels**

802.11a (5 720 Mb)



# 802.11n\_HT20 (5 720 贴)

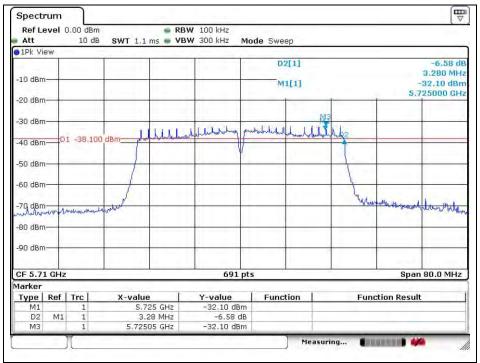


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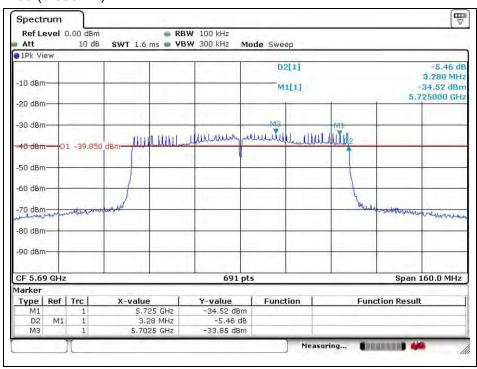


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# 802.11n\_HT40 (5 710 Mb)



# 802.11ac\_VHT80 (5 690 Nb)



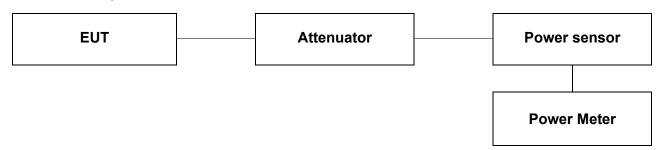
The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company.



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# 5. Maximum Conducted Output Power

### 5.1. Test setup



#### 5.2. Limit

#### **FCC**

15.407 (a)(1)(iv)

For client devices in the 5.15-5.25  $\mbox{ db}$  band, the maximum conducted output power over the frequency band of operation shall not exceed 250  $\mbox{ mW}$  provided the maximum antenna gain does not exceed 6  $\mbox{ dB}$  i. In addition, the maximum power spectral density shall not exceed 11  $\mbox{ dB}$  m in any 1 megahertz band. If transmitting antennas of directional gain greater than 6  $\mbox{ dB}$  i are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in  $\mbox{ dB}$  that the directional gain of the antenna exceeds 6  $\mbox{ dB}$  i.

#### 15.407 (a)(2)

For the 5.25-5.35  $\mbox{ }\mbox{ }\m$ 

# 15.407 (a)(3)

For the band 5.725-5.85  $\mbox{GHz}$ , the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dB m in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dB i are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dB i. However, fixed point-to point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dB i without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.



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#### IC

RSS-247 Issue 1, 6.2.1 (1) Band 5 150-5 250 Mbz

The maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log<sub>10</sub>B, dB m, whichever power is less. B is the 99 % emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dB m in any 1.0 Mb band.

RSS-247 Issue 1, 6.2.2 (1) Band 5 250-5 350 Mbz

The maximum conducted output power shall not exceed 250 mW or 11 + 10 log<sub>10</sub>B, dB m, whichever is less. The power spectral density shall not exceed 11 dB m in any 1.0 Mb band.

The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log<sub>10</sub>B, dB m, whichever is less. B is the 99 % emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 MW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

RSS-247 Issue 1, 6.2.3 (1) Band 5 470-5 600 Mb and 5 650-5 725 Mb

The maximum conducted output power shall not exceed 250  $\, \text{mW}$  or 11 + 10  $\log_{10}B$ ,  $\, \text{dB}$  m, whichever is less. The power spectral density shall not exceed 11 dB m in any 1.0 Mb band.

The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log<sub>10</sub>B, dB m, whichever is less. B is the 99 % emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

RSS-247 Issue 1, 6.2.4 (1) Band 5 725-5 825 MHz

For equipment operating in the band 5 725-5 850 Mb, the minimum 6 dB bandwidth shall be at least 500 kb. The maximum conducted output power shall not exceed 1 W. The power spectral density shall not exceed 30 dB m in any 500 kb band. If transmitting antennas of directional gain greater than 6 dB i are used, both the maximum conducted output power and the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dB i. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint<sup>3</sup> systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.



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# 5.3. Test procedure

- 1. This measurement settings are specified in section E.3.a of KDB 789033 v01r02.
- 2. Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied.
  - The EUT is configured to transmit continuously or to transmit with a consistent duty cycle.
  - At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.
  - The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- 3. If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section II.B.
- 4. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
- 5. Adjust the measurement in dB m by adding 10 log (1/x) where x is the duty cycle (e.g., 10 log(1/0.25) if the duty cycle is 25 percent).
- 6. In case of band crossing channels 138, 142 and 144, the measurement is complied with section E.2.d of KDB 789033 D02 v01r02 and section D of KDB 644545 D03 v01.



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# 5.4. Test result

Ambient temperature : (23  $\pm$  1)  $^{\circ}$ C Relative humidity : 47  $^{\circ}$  R.H.

		Frequency		Conduct	ed Power (dB m)	
Mode	Band	(MHz)	Data Rate [Mbps]	Average Power (dB m)	Duty Correction Factor (dB)	Average Power Result (dB m)
		5 180	6	15.28	0.09	15.37
	U-NII 1	5 200	6	15.04	0.09	15.13
		5 240	6	14.77	0.09	14.86
	U-NII 2A	5 260	6	14.50	0.09	14.59
		5 280	6	14.25	0.09	14.34
11a		5 320	6	14.58	0.09	14.67
Tia		5 500	6	13.86	0.09	13.95
	U-NII 2C	5 580	6	12.65	0.09	12.74
		5 700	6	12.06	0.09	12.15
		5 745	6	12.10	0.09	12.19
	U-NII 3	5 785	6	12.69	0.09	12.78
		5 825	6	13.20	0.09	13.29

#### **FCC Limit**

FCC LIIII	Conducted Power Limit (dB m)								
Band	Frequency (Mb)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna gain (dB i)	Limit (dB m)			
	5 180			•					
U-NII 1	5 200	23.98			0.91	23.98			
	5 240								
	5 260	23.98	21.447	24.31	0.91	23.98			
U-NII 2A	5 280		21.360	24.30		23.98			
	5 320		21.418	24.31	] [	23.98			
	5 500		21.360	24.30		23.98			
U-NII 2C	5 580	23.98	21.245	24.27	0.69	23.98			
	5 700		21.360	24.30	] [	23.98			
	5 745								
U-NII 3	5 785	30			-1.52	30			
	5 825								



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# **IC Limit**

Dand			Conducted F	Power Limit (dB m)		
Band	Frequency (Mb)	Fixed Limit (dB m)	99 % BW (Mb)	10+10Log <sub>10</sub> B (dB m)	Antenna gain (dBi)	Limit (dB m)
	5 180		17.077	22.32		22.32
U-NII 1	5 200	23.98	17.077	22.32	0.91	22.32
	5 220		17.077	22.32		22.32
Band	Frequency (Mb)	Fixed Limit (dB m)	99 % BW (Mb)	11+10Log <sub>10</sub> B (dB m)	Antenna gain (dB i)	Limit (dB m)
	5 260		17.077	23.32		23.32
U-NII 2A	5 280	23.98	17.135	23.34	0.91	23.34
	5 320		17.135	23.34		23.34
	5 500		17.192	23.35		23.35
U-NII 2C	5 580	23.98	17.135	23.34	0.69	23.34
	5 700		17.192	23.35		23.35
	5 745					
U-NII 3	5 785	30			-1.52	30
	5 825					

# Remark:

1. Result (dB m) = Average Power(dB m) + Duty Correction Factor (dB)



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		Frequency		Conduct	ed Power (dB m)	
Mode	Band	(MHz)	Data Rate [Mbps]	Average Power (dB m)	Duty Correction Factor (dB)	Average Power Result (dB m)
		5 180	MCS0	14.79	0.09	14.88
	U-NII 1	5 200	MCS0	14.68	0.09	14.77
		5 240	MCS0	14.43	0.09	14.52
	U-NII 2A	5 260	MCS0	13.96	0.09	14.05
		5 280	MCS0	13.87	0.09	13.96
44× UT20		5 320	MCS0	14.10	0.09	14.19
11n_HT20		5 500	MCS0	13.21	0.09	13.30
	U-NII 2C	5 580	MCS0	12.29	0.09	12.38
		5 700	MCS0	11.71	0.09	11.80
		5 745	MCS0	11.66	0.09	11.75
	U-NII 3	5 785	MCS0	12.36	0.09	12.45
		5 825	MCS0	12.79	0.09	12.88

### FCC Limit

FCC Lim	Conducted Power Limit (個 m)									
Band	Frequency (Mb)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna gain (dB i)	Limit (dB m)				
	5 180									
U-NII 1	5 200	23.98			0.91	23.98				
	5 240									
	5 260		21.476	24.32		23.98				
U-NII 2A	5 280	23.98	21.766	24.38	0.91	23.98				
	5 320		21.823	24.39	] [	23.98				
	5 500		21.650	24.35		23.98				
U-NII 2C	5 580	23.98	21.476	24.32	0.69	23.98				
	5 700		21.592	24.34		23.98				
	5 745									
U-NII 3	5 785	30			-1.52	30				
	5 825									



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#### **IC** Limit

Band			Conducted P	ower Limit (dB m)		
Dallu	Frequency (Mb)	Fixed Limit (dB m)	99 % BW (Mb)	10+10Log <sub>10</sub> B (dB m)	Antenna gain (dBi)	Limit (dB m)
	5 180		18.119	22.58		22.58
U-NII 1	5 200	23.98	18.177	22.60	0.91	22.60
	5 240		18.177	22.60		22.60
Band	Frequency (Mb)	Fixed Limit (dB m)	99 % BW (Mb)	11+10Log <sub>10</sub> B (dB m)	Antenna gain (dB i)	Limit (dB m)
	5 260		18.177	23.60		23.60
U-NII 2A	5 280	23.98	18.177	23.60	0.91	23.60
	5 320		18.119	23.58		23.58
	5 500		18.177	23.60		23.60
U-NII 2C	5 580	23.98	18.177	23.60	0.69	23.60
	5 700		18.177	23.60		23.60
	5 745			_		
U-NII 3	5 785	30			-1.52	30
	5 825					

#### Remark:

1. Result (dB m) = Average Power(dB m) + Duty Correction Factor (dB)



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		Frequency		Conduct	ed Power (dB m)	
Mode	Band	(MHz)	Data Rate [Mbps]	Average Power (dB m)	Duty Correction Factor (dB)	Average Power Result (dB m)
	U-NII 1	5 190	MCS0	12.71	0.13	12.84
		5 230	MCS0	12.61	0.13	12.74
	U-NII 2A	5 270	MCS0	12.18	0.13	12.31
		5 310	MCS0	12.23	0.13	12.36
11n_HT40		5 510	MCS0	11.16	0.13	11.29
	U-NII 2C	5 550	MCS0	10.20	0.13	10.33
		5 670	MCS0	10.66	0.13	10.79
	U-NII 3	5 755	MCS0	9.95	0.13	10.08
		5 795	MCS0	10.71	0.13	10.84

# **FCC Limit**

Band	Conducted Power Limit (dB m)									
Бапи	Frequency (Mb)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna gain (dBi)	Limit (dB m)				
U-NII 1	5 190	23.98			0.91	23.98				
U-NII I	5 230	25.90			0.91	25.90				
U-NII 2A	5 270	23.98	40.460	27.07	0.91	23.98				
U-NII ZA	5 310	25.90	40.520	27.08	0.91	23.98				
	5 510		40.170	27.04		23.98				
U-NII 2C	5 550	23.98	40.410	27.06	0.69	23.98				
	5 670		40.290	27.05		23.98				
U-NII 3	5 755	30		_	-1.52	30				
U-IVII 3	5 955	30			-1.32	30				

# IC Limit

IC Limit										
Band	Conducted Power Limit (dB m)									
Бапи	Frequency (Mb)	Fixed Limit (dB m)	99 % BW (Mb)	10+10Log <sub>10</sub> B (dB m)	Antenna gain (dBi)	Limit (dB m)				
U-NII 1	5 190	23.98	36.700	25.65	0.91	23.98				
0-1111 1	5 230	23.98	36.700	25.65	0.91	23.98				
Band	Frequency (Mb)	Fixed Limit (dB m)	99 % BW (Mb)	11+10Log <sub>10</sub> B (dB m)	Antenna gain (dB i)	Limit (dB m)				
U-NII 2A	5 270	23.98	36.585	26.63	0.91	23.98				
U-NII ZA	5 310	25.90	36.700	26.65	0.91	23.98				
	5 510		36.700	26.65		23.98				
U-NII 2C	5 550	23.98	36.585	26.63	0.69	23.98				
	5 670		36.700	26.65		23.98				
U-NII 3	5 755	30			-1.52	30				
0-1111 3	5 955	] 30			-1.52	50				

# Remark:

1. Result (dB m) = Average Power (dB m) + Duty Correction Factor (dB)



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Mode	Band	Frequency (船)	Conducted Power (dB m)						
			Data Rate [Mbps]	Average Power (dB m)	Duty Correction Factor (dB)	Average Power Result (dB m)			
	U-NII 1	5 210	MCS0	10.87	0.32	11.19			
	U-NII 2A	5 290	MCS0	10.40	0.32	10.72			
11ac_VHT80	U-NII 2C	5 530	MCS0	8.70	0.32	9.02			
		5 690	MCS0	7.96	0.32	8.28			
	U-NII 3	5 775	MCS0	8.35	0.32	8.67			

### **FCC Limit**

1 00 E	O Limit									
Band	Conducted Power Limit (dB m)									
Dallu	Frequency (Mb)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna gain (dBi)	Limit (dB m)				
U-NII 1	5 210	23.98			0.91	23.98				
U-NII 2A	5 290	23.98	83.130	30.20	0.91	23.98				
U-NII 2C	5 530	23.98	82.660	30.17	0.69	23.98				
U-NII 2C	5 690	23.90	82.200	30.15	0.09	23.98				
U-NII 3	5 775	30			-1.52	30				

### **IC Limit**

(艦)   10+10Log <sub>10</sub> B (dB m)   Antenna gain (dB i)   Limit (dB m)
(Mb) 10+10Log <sub>40</sub> B (dB m) Antenna gain (dB i) Limit (dB m)
() 10 10 10 10 10 () 1 gain (ab ii)
3 28.79 0.91 23.98
(Mb) 11+10Log <sub>10</sub> B (dB m) Antenna gain (dB i) Limit (dB m)
3 29.81 0.91 23.98
3 29.79 0.69 23.98
3.98
-1.52 30
6

#### Remark:

1. Result (dB m) = Average Power (dB m) + Duty Correction Factor (dB)



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# -Band-crossing channels

		F	Conducted Power (dB m)						
Band Mod	Mode	Frequency (M版)	Data Rate [Mbps]	Average Power (dB m)	Duty Correction Factor (dB)	Average Power Result (dB m)			
U-NII 2C	11a	F 720	6	11.21	2.00	11.30			
U-NII 3	Tia	5 720	6	4.01	0.09	4.10			
U-NII 2C	44 m UT20	5 720	MCS0	10.87	0.09	10.96			
U-NII 3	11n_HT20	5 720	MCS0	4.10	0.09	4.19			
U-NII 2C	11n UT40	5 710	MCS0	9.85	0.13	9.98			
U-NII 3	11n_HT40	5710	MCS0	-1.31	0.13	-1.18			
U-NII 2C	4400 V/UT90	F 600	MCS0	8.53	0.32	8.85			
U-NII 3	11ac_VHT80	5 690	MCS0	-6.45	0.32	-6.13			

		Conducted Power Limit (dB m)							
Band	Mode	Frequency (Mb)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna gain (dB i)	Limit (dB m)		
U-NII 2C	11a	5 720	23.98	15.593	22.93	0.69	22.93		
U-NII 3	Tia	3720		30					
U-NII 2C	44 n UT20	5 720	23.98	15.709	22.96	0.69	22.96		
U-NII 3	11n_HT20	3720		30					
U-NII 2C	44 n UT40	11n HT40 5 710		34.800	26.42	0.69	23.98		
U-NII 3	11n_HT40	3710		30					
U-NII 2C	1100 VHT90	5 690	23.98	75.980	29.81	0.69	23.98		
U-NII 3	11ac_VHT80	3 090		30					

### Remark:

1. Result (dB m) = Average Power(dB m) + Duty Correction Factor (dB)



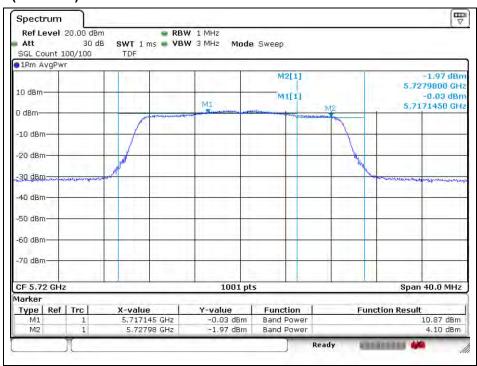
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# **Band-crossing channels**

# 802.11a (5 720 Mb)



# 802.11n\_HT20 (5 720 Mb)

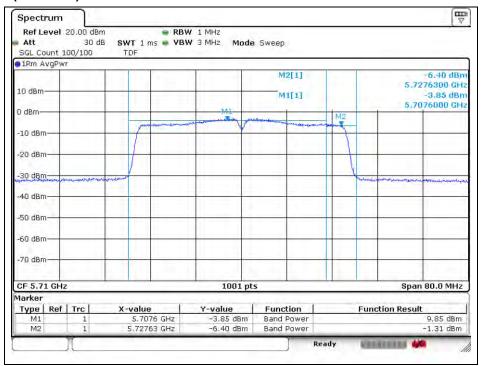


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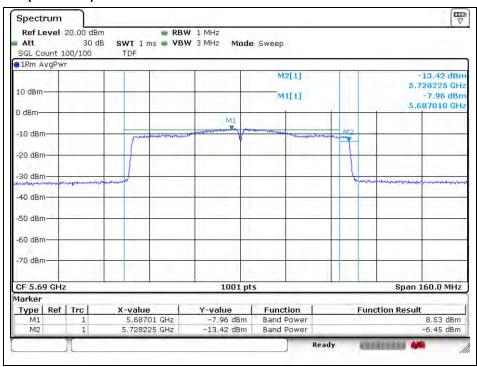


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# 802.11n\_HT40 (5 710 Mb)



# 802.11ac\_VHT80 (5 690 Mb)





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# 6. Peak Power Spectral Density

### 6.1. Test setup

EIIT	Attenuator	Spectrum Analyzer
Loi	Attenuator	Spectrum Analyzer

### 6.2. Limit

#### **FCC**

15.407 (a)(1)(iv)

For client devices in the 5.15-5.25  $\mbox{ db}$  band, the maximum conducted output power over the frequency band of operation shall not exceed 250  $\mbox{ mW}$  provided the maximum antenna gain does not exceed 6  $\mbox{ dB}$  i. In addition, the maximum power spectral density shall not exceed 11  $\mbox{ dB}$  m in any 1 megahertz band. If transmitting antennas of directional gain greater than 6  $\mbox{ dB}$  i are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in  $\mbox{ dB}$  that the directional gain of the antenna exceeds 6  $\mbox{ dB}$  i.

#### 15.407 (a)(2)

For the 5.25-5.35  $\mbox{ }\mbox{ }\m$ 

# 15.407 (a)(3)

For the band 5.725-5.85  $\,\mathrm{GHz}$ , the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30  $\,\mathrm{dB}\,\mathrm{m}$  in any 500-kHz band. If transmitting antennas of directional gain greater than 6  $\,\mathrm{dB}\,\mathrm{i}$  are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in  $\,\mathrm{dB}\,\mathrm{that}$  the directional gain of the antenna exceeds 6  $\,\mathrm{dB}\,\mathrm{i}$ . However, fixed point-to point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6  $\,\mathrm{dB}\,\mathrm{i}$  without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.



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#### IC

RSS-247 Issue 1, 6.2.1 (1) Band 5 150-5 250 Mbz

The maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log<sub>10</sub>B, dB m, whichever power is less. B is the 99 % emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dB m in any 1.0 Mb band.

RSS-247 Issue 1, 6.2.2 (1) Band 5 250-5 350 Mb

The maximum conducted output power shall not exceed 250 mW or 11 + 10 log<sub>10</sub>B, dB m, whichever is less. The power spectral density shall not exceed 11 dB m in any 1.0 Mb band.

The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log<sub>10</sub>B, dB m, whichever is less. B is the 99 % emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 MW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

RSS-247 Issue 1, 6.2.3 (1) Band 5 470-5 600 Mb and 5 650-5 725 Mb

The maximum conducted output power shall not exceed 250 mW or 11 + 10 log<sub>10</sub>B, dB m, whichever is less. The power spectral density shall not exceed 11 dB m in any 1.0 Mb band.

The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log<sub>10</sub>B, dB m, whichever is less. B is the 99 % emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 MW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

RSS-247 Issue 1, 6.2.4 (1) Band 5 725-5 825 Mb

For equipment operating in the band 5 725-5 850 MHz, the minimum 6 dB bandwidth shall be at least 500 kHz. The maximum conducted output power shall not exceed 1 W. The power spectral density shall not exceed 30 dB m in any 500 kHz band. If transmitting antennas of directional gain greater than 6 dB i are used, both the maximum conducted output power and the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dB i. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint<sup>3</sup> systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.



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# 6.3. Test procedure

All data rates and modes were investigated for this test. The full data for the worst case data rate are reported in this section.

- 1. This measurement settings are specified in section F of KDB 789033\_v01r02.
- 2. Create an average power spectrum for the EUT operating mode being tested by following the instructions in section II.E.2. for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power...". (This procedure is required even if the maximum conducted output power measurement was performed using a power meter, method PM.)
- 3. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- 4. Make the following adjustments to the peak value of the spectrum, if applicable:
- a) If Method SA-2 or SA-2 Alternative was used, add 10 log(1/x), where x is the duty cycle, to the peak of the spectrum.
- b) If Method SA-3 Alternative was used and the linear mode was used in step II.E.2.g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.
- 5. The result is the Maximum PSD over 1 Mb reference bandwidth.
- 6. For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (*i.e.*, 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:
- a) Set RBW  $\geq 1/T$ , where T is defined in section II.B.l.a).
- b) Set VBW ≥ 3 RBW.
- c) If measurement bandwidth of Maximum PSD is specified in 500 klb, add 10log(500 klb/RBW) to the measured result, whereas RBW (< 500 klb) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 Mb, add 10log(1 Mb/RBW) to the measured result, whereas RBW (< 1 Mb) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100  $\,\mathrm{kHz}$  for the sections 5.c) and 5.d) above, since RBW = 100  $\,\mathrm{kHz}$  is available on nearly all spectrum analyzers.

7. In case of band crossing channels 138, 142 and 144, the measurement is complied with section D of KDB 644545\_D03 v01.



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# 6.4. Test result

Ambient temperature : (23  $\pm$  1)  $^{\circ}$ C Relative humidity : 47  $^{\circ}$  R.H.

Mode	Band	Frequency (脈)	Ch.	Data Rate (Mbps)	Measured PPSD (dB m)	Duty Factor (dB)	Final PPSD (dB m)	Limit (dB m/1 MHz)
		5 180	36	6	4.93	0.09	5.02	
	U-NII 1	5 200	40	6	4.89	0.09	4.98	10
		5 240	48	6	4.65	0.09	4.74	
		5 260	52	6	4.22	0.09	4.31	
	U-NII 2A	5 280	56	6	3.95	0.09	4.04	
		5 320	64	6	4.29	0.09	4.38	11
11a		5 500	100	6	3.57	0.09	3.66	11
110	U-NII 2C	5 580	116	6	2.70	0.09	2.79	
		5 700	140	6	2.62	0.09	2.71	
	Band	Frequency	Ch.	Data Rate	Measured PPSD	<b>Duty Factor</b>	Final PPSD	Limit
	Dallu	(MHz)	<u>.</u>	(Mbps)	(dB m)	(dB)	(dB m)	(dB m/500 kHz)
		5 745	149	6	-0.43	0.09	-0.34	
	U-NII 3	5 785	157	6	0.28	0.09	0.37	30
		5 825	165	6	0.54	0.09	0.63	

Mode	Band	Frequency (Mb/z)	Ch.	Data Rate (Mbps)	Measured PPSD (dB m)	Duty Factor (dB)	Final PPSD (dB m)	Limit (dB m/1 Mhz)
		5 180	36	MCS0	4.30	0.09	4.39	
	U-NII 1	5 200	40	MCS0	4.25	0.09	4.34	10
		5 240	48	MCS0	4.15	0.09	4.24	
		5 260	52	MCS0	3.57	0.09	3.66	
	U-NII 2A	5 280	56	MCS0	3.63	0.09	3.72	11
		5 320	64	MCS0	3.69	0.09	3.78	
11n HT20	U-NII 2C	5 500	100	MCS0	3.11	0.09	3.20	11
1111_11120		5 580	116	MCS0	2.25	0.09	2.34	
		5 700	140	MCS0	1.95	0.09	2.04	
	Band	Frequency (Mb)	Ch.	Data Rate (Mbps)	Measured PPSD (dB m)	Duty Factor (dB)	Final PPSD (dB m)	Limit (dB m/500 kHz)
		5 745	149	MCS0	-0.87	0.09	-0.78	
	U-NII 3	5 785	157	MCS0	-0.47	0.09	-0.38	30
		5 825	165	MCS0	-0.04	0.09	0.05	



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Mode	Band	Frequency (Mb)	Ch.	Data Rate (Mbps)	Measured PPSD (dB m)	Duty Factor (dB)	Final PPSD (dB m)	Limit (dB m/1 MHz)
	U-NII 1	5 190	38	MCS0	-0.63	0.13	-0.50	10
	O-IVII I	5 230	40	MCS0	-0.79	0.13	-0.66	10
	U-NII 2A	5 270	54	MCS0	-1.32	0.13	-1.19	
	U-INII ZA	5 310	62	MCS0	-1.18	0.13	-1.05	
		5 510	102	MCS0	-1.94	0.13	-1.81	11
11n_HT40	U-NII 2C	5 550	110	MCS0	-2.88	0.13	-2.75	
		5 670	134	MCS0	-2.17	0.13	-2.04	
	Band	Frequency (Mb)	Ch.	Data Rate (Mbps)	Measured PPSD (dB m)	Duty Factor (dB)	Final PPSD (dB m)	Limit (dB m/500 kHz)
	II NIII 2	5 755	151	MCS0	-5.60	0.13	-5.47	,
	U-NII 3	5 795	159	MCS0	-5.20	0.13	-5.07	30

Mode	Band	Frequency (Mb)	Ch.	Data Rate (Mbps)	Measured PPSD (dB m)	Duty Factor (dB)	Final PPSD (dB m)	Limit (dB m/1 MHz)
	U-NII 1	5 210	42	MCS0	-5.28	0.32	-4.96	10
	U-NII 2A	5 290	58	MCS0	-6.09	0.32	-5.77	
	U-NII 2C	5 530	106	MCS0	-7.35	0.32	-7.03	11
11ac_VHT80		5 690	138	MCS0	-7.72	0.32	-7.40	
	Band	Frequency (Mb)	Ch.	Data Rate (Mbps)	Measured PPSD (dB m)	Duty Factor (dB)	Final PPSD (dB m)	Limit (dB m/500 kHz)
	U-NII 3	5 775	155	MCS0	-9.90	0.32	-9.58	30

# **Band-crossing channels**

Band	Mode	Frequency (Mb)	Ch.	Data Rate (Mbps)	Measured PPSD (dB m)	Duty Factor (dB)	Final PPSD (dB m)	Limit (dBm/500 kHz)
U-NII 3	11a	5 720	144	6	-2.99	0.09	-2.90	
	11n_HT20	5 720	144	MCS0	-3.97	0.09	-3.88	30
	11n_HT40	5 710	142	MCS0	-8.48	0.13	-8.35	30
	11ac_VHT80	5 690	138	MCS0	-13.90	0.32	-13.58	

Note:

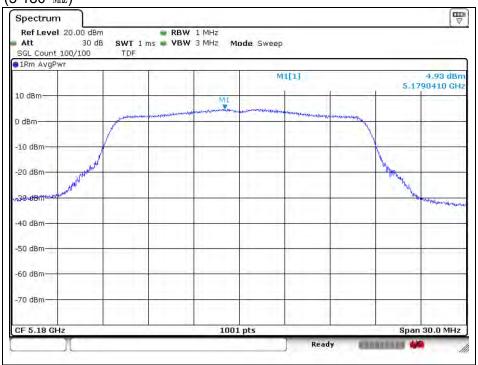
Final PPSD = Measured PPSD + Duty Factor



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# 802.11a (Band 1)

Low channel (5 180 账)



# Middle channel (5 200 Mb)





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High channel (5 240 眦)



# 802.11a (Band 2A)

Low channel (5 260 Mb)

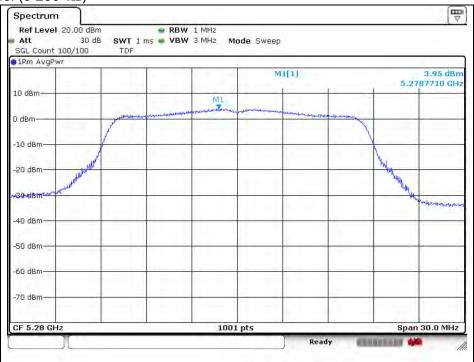


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# Middle channel (5 280 雕)



# High channel (5 320 账)

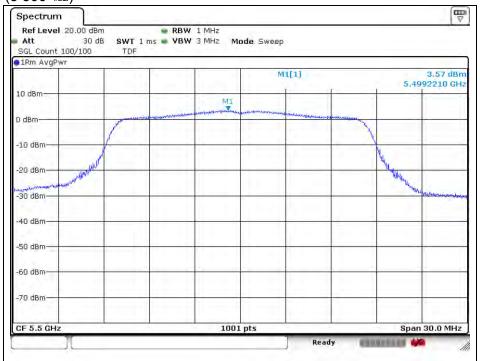




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# 802.11a (Band 2C)

Low channel (5 500 账)



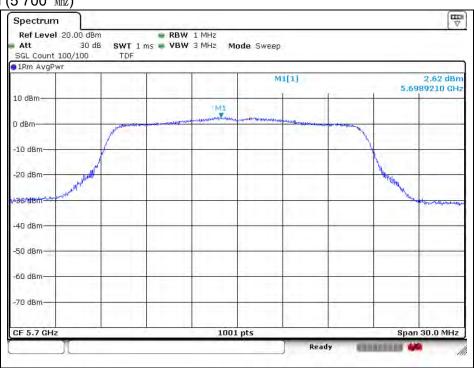
# Middle channel (5 580 Mb)





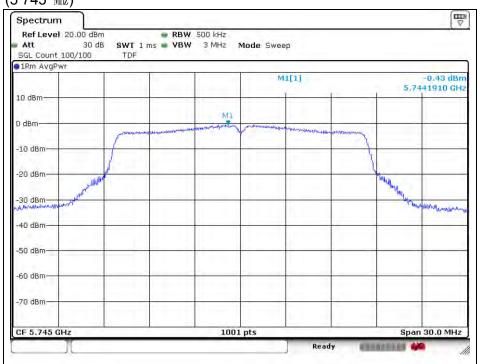
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High channel (5 700 眦)



# 802.11a (Band 3)

Low channel (5 745 M地)



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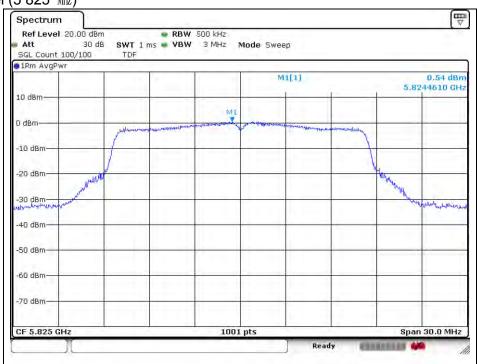


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# Middle channel (5 785 雕)



# High channel (5 825 账)





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# 802.11n\_HT20 (Band 1)

Low channel (5 180 Mb)



# Middle channel (5 200 Mb)





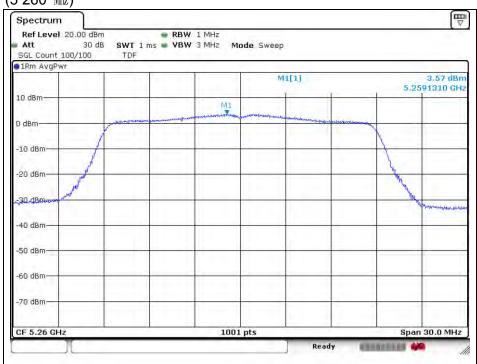
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High channel (5 240 眦)



# 802.11n\_HT20 (Band 2A)

Low channel (5 260 Mb)

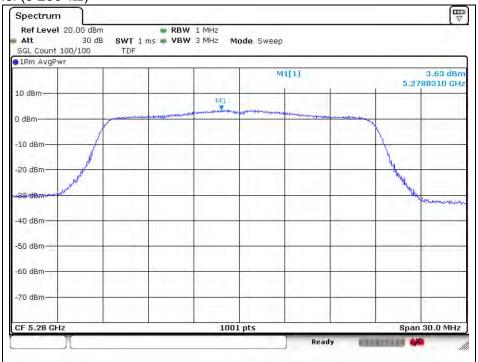


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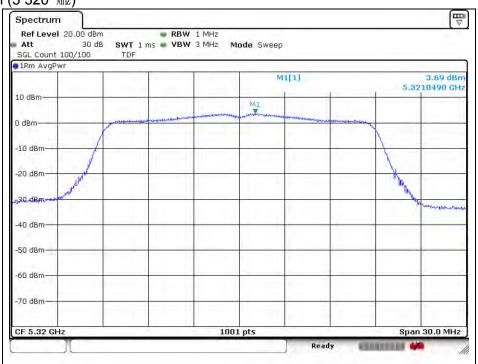


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# Middle channel (5 280 雕)



# High channel (5 320 账)



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# 802.11n\_HT20 (Band 2C)

Low channel (5 500 账)



### Middle channel (5 580 Mb)

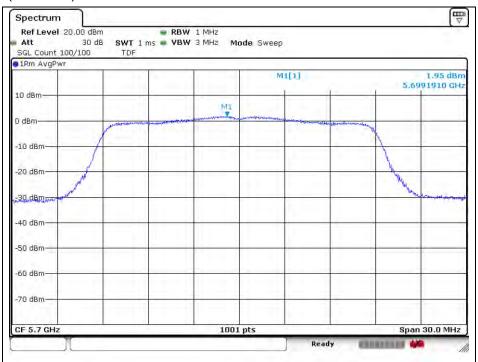


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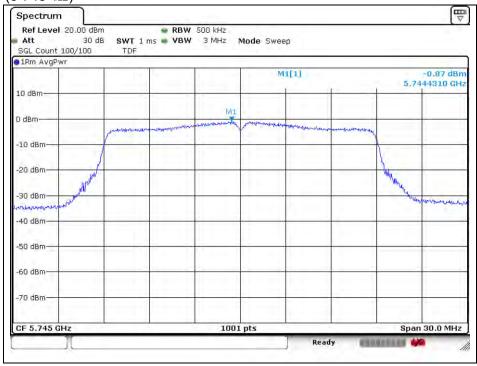
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# High channel (5 700 眦)



# 802.11n\_HT20 (Band 3)

Low channel (5 745 M地)

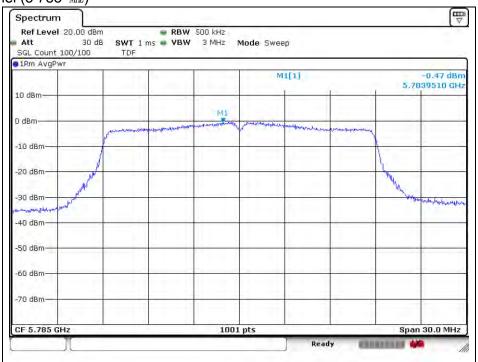


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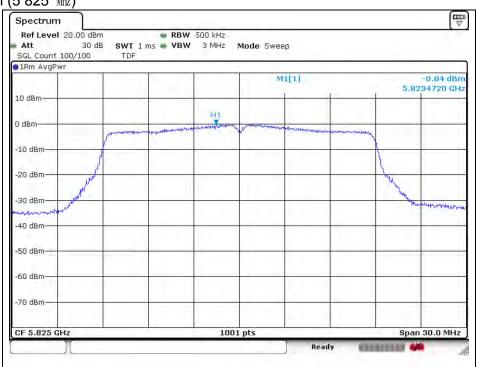


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# Middle channel (5 785 雕)



# High channel (5 825 账)



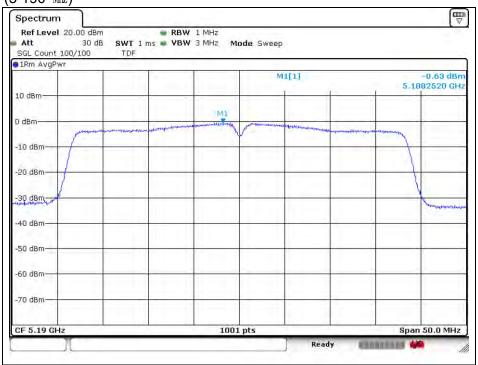
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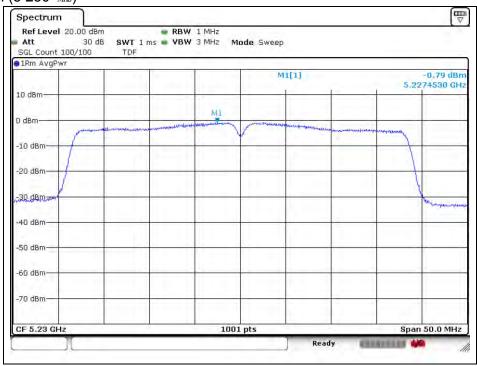
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# 802.11n\_HT40 (Band 1)

Low channel (5 190 Mb)



# High channel (5 230 眦)



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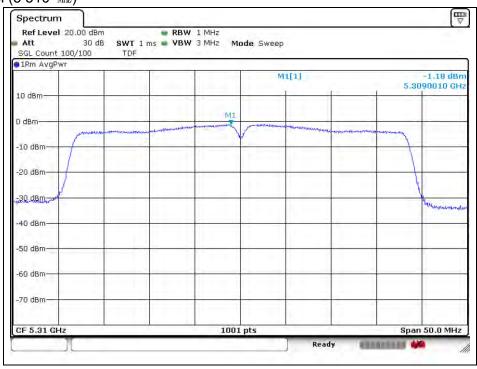
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# 802.11n\_HT40 (Band 2A)

Low channel (5 270 账)



# High channel (5 310 眦)



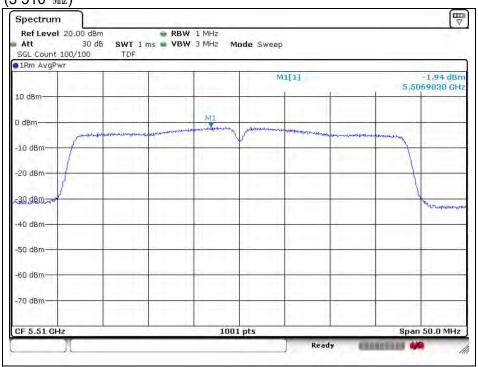
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# 802.11n\_HT40 (Band 2C)

Low channel (5 510 账)



### Middle channel (5 550 Mb)

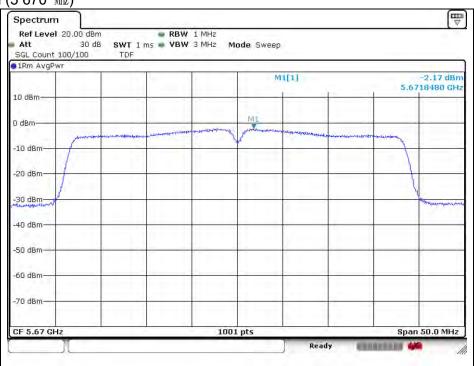


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High channel (5 670 眦)



# 802.11n\_HT40 (Band 3)

Low channel (5 755 Mb)



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High channel (5 795 眦)



# 802.11ac\_VHT80 (Band 1)

Middle channel (5 210 Mz)



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# 802.11ac\_VHT80 (Band 2A)

Middle channel (5 290 Mb)



### 802.11ac\_VHT80 (Band 2C)

Low channel (5 530 Mb)

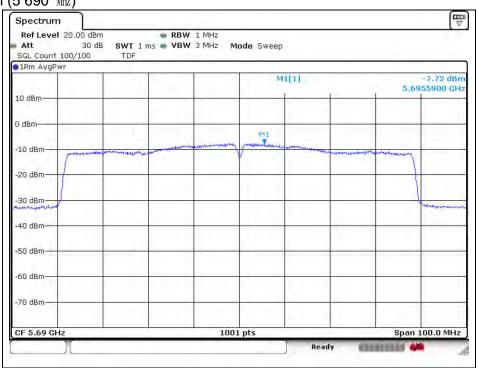


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High channel (5 690 眦)



# 802.11ac\_VHT80 (Band 3)

Middle channel (5 775 Mb)



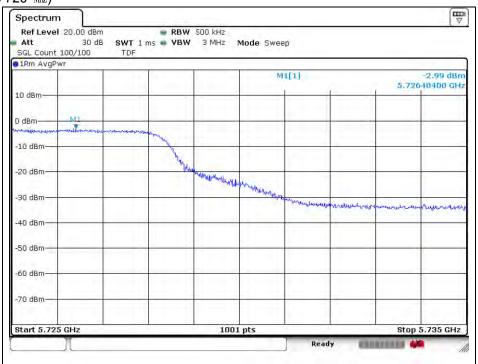
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### **Band-crossing channels**

U-NII 3 11a (5 720 Mb)



U-NII 3 11n\_HT20 (5 720 Mb)

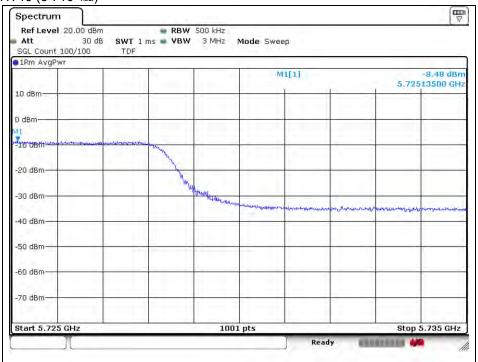


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### U-NII 3 11n\_HT40 (5 710 账)



### U-NII 3 11ac\_VHT80 (5 690 Mb)



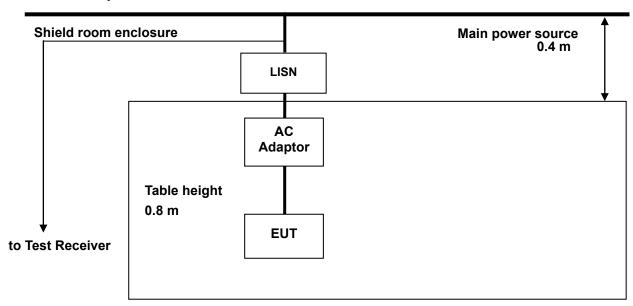
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### 7. AC Power Line Conducted Emission

# 7.1. Test Setup



### **7.2. Limit**

#### **FCC**

§15.207(a) for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50  $\mu$  H /50 ohm line impedance stabilization network(LISN).

Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequency ranges.

	Conducted limit (dBµV)		
Frequency of Emission (酏)	Quasi-peak	Average	
0.15 - 0.50	66 - 56*	56 - 46*	
0.50 - 5.00	56	46	
5.00 - 30.0	60	50	

<sup>\*</sup> Decreases with the logarithm of the frequency.



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#### IC

RSS-Gen Issue 4, 8.8, A radio apparatus that is designed to be connected to the public utility (AC) power line shall ensure that the radio frequency voltage, which is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in Table 3.

Unless the requirements applicable to a given device state otherwise, for any radio apparatus equipped to operate from the public utility AC power supply either directly or indirectly (such as with a battery charger), the radio frequency voltage of emissions conducted back onto the AC power lines in the frequency range of 0.15 Mb to 30 Mb shall not exceed the limits shown in Table 3 below. The more stringent limit applies at the frequency range boundaries.

The conducted emissions shall be measured in accordance with the reference publication mentioned in Section 3.

Table 3 - AC Power Line Conducted Emissions Limits

Frequency (쌘)	Conducted limit (dBµV)		
	Quasi-peak	Average**	
0.15 - 0.50	66 - 56*	56 - 46*	
0.50 - 5.00	56	46	
5.00 - 30.0	60	50	

<sup>\*</sup> Decreases with the logarithm of the frequency.

### 7.3. Test Procedures

All data rates and modes were investigated for this test. The full data for the worst case data rate are reported in this section.

AC line conducted emissions from the EUT were measured according to the dictates of ANSI C63.10-2013

- 1. The test procedure is performed in a 6.5 m × 3.6 m × 3.6 m (L × W × H) shielded room. The EUT along with its peripherals were placed on a 1.0 m (W) × 1.5 m (L) and 0.8 m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.
- 2. The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room.
- 3. The excess power cable between the EUT and the LISN was bundled. All connecting cables of EUT were moved to find the maximum emission.

<sup>\*\*</sup> A linear average detector is required.



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### 7.4. Test Results

The following table shows the highest levels of conducted emissions on both phase of Hot and Neutral line

Ambient temperature : (23  $\pm$  1)  $^{\circ}$ C Relative humidity : 47  $^{\circ}$  R.H.

Frequency range : 0.15 Mb - 30 Mb

Measured Bandwidth : 9 kHz

FREQ.	LEVEL(dB μλ/)		LINE	LIMIT(	dBμV)	MARG	IN(dB)
(MHz)	Q-Peak	Average	LINE	Q-Peak	Average	Q-Peak	Average
0.46	30.80	24.60	N	56.69	46.69	25.89	22.09
0.52	21.50	14.40	N	56.00	46.00	34.50	31.60
0.92	17.50	13.10	N	56.00	46.00	38.50	32.90
1.58	17.10	12.60	N	56.00	46.00	38.90	33.40
2.24	16.50	12.00	N	56.00	46.00	39.50	34.00
18.55	17.60	12.80	N	60.00	50.00	42.40	37.20
0.47	28.90	22.60	Н	56.51	46.51	27.61	23.91
0.92	15.20	11.40	Н	56.00	46.00	40.80	34.60
1.29	16.10	11.80	Н	56.00	46.00	39.90	34.20
1.95	15.50	11.20	Н	56.00	46.00	40.50	34.80
6.01	15.90	11.20	Н	60.00	50.00	44.10	38.80
26.50	15.70	10.50	Н	60.00	50.00	44.30	39.50

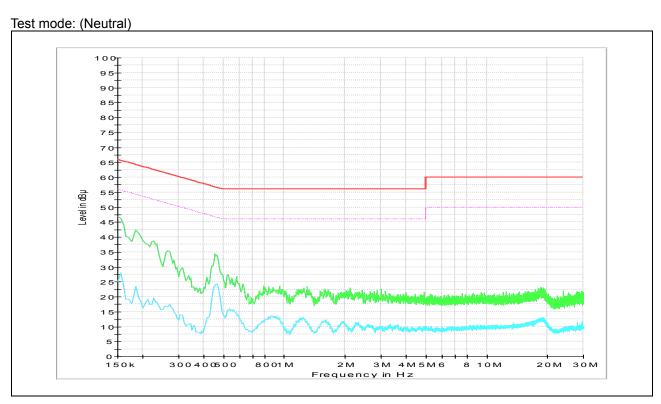
### Remark;

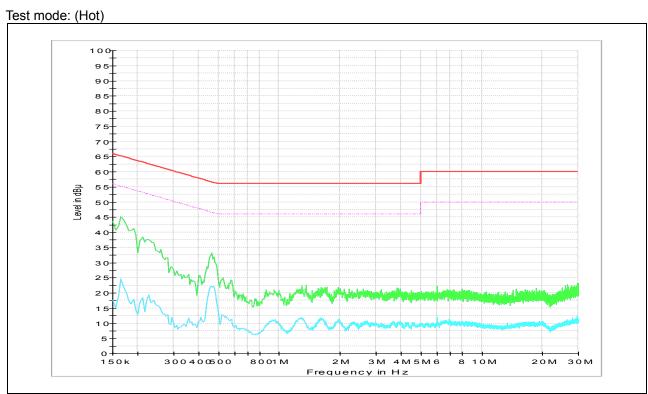
- 1. Line ( H ): Hot, Line ( N ): Neutral.
- 2. All modes of operation were investigated and the worst-case emissions were reported using 11a (Band 1) Mode, 6Mbps, Low channel.
- 3. Traces shown in plot mad using a peak detector and average detector.
- 4. The limit for Class B device(s) from 150 km to 30 Mm are specified in Section of the Title 47 CFR.
- 5. Deviations to the Specifications: None.



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### **Plots of Conducted Power line**





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SGS Korea Co., Ltd. (Gunpo Laboratory) 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807 <a href="http://www.sgsgroup.kr">http://www.sgsgroup.kr</a>



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# 8. Antenna Requirement

# 8.1. Standard Applicable

For intentional device, according to FCC 47 CFR Section §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section §15.407 (a) if transmitting antennas of directional gain greater than 6 dB i are used, the power shall be reduced by the amount in dB that the gain of the antenna exceeds 6 dB i.

### 8.2. Antenna Connected Construction

Antenna used in this product is Dipole type and peak max gain of antenna as below.

Band	5 150 Mb - 5 350 Mb	5 470 Mb - 5 725 Mb	5 725 Mb - 5 850 Mb		
Mode	11a/n_HT20, HT40, 11ac_VHT20, VHT40, VHT80				
Gain	0.91 dBi	0.69 dBi	-1.52 dBi		

- End of the Test Report -