6. 6dB Bandwidth Measurement Data

6.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

6.2 Test Procedures

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

6.3 Test Setup Layout



6.4 Measurement Equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	R&S	FSP40	100219	2011/11/24	2012/11/23

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6.5 Test Result and Data

Test Date: Jun. 01, 2012 Temperature: 25° C Atmospheric pressure: 1020 hPa Humidity: 65%

Modulation Standard	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		
		,	ANT R	ANT L	
	01	2412	11.9	12.0	
802.11b (11Mbps)	06	2437	12.0	12.0	
	11	2462	12.0	12.0	
	01	2412	16.6	16.4	
802.11g (54Mbps)	06	2437	16.3	16.4	
	11	2462	16.4	16.4	
000 44 × LITO0	01	2412	17.8	17.6	
802.11n HT20 (130Mbps)	06	2437	17.6	17.6	
(1301/10/23)	11	2462	17.7	17.5	
000 44 11740	03	2422	36.0	36.0	
802.11n HT40 (270Mbps)	06	2437	36.0	35.6	
(270lvlbps)	09	2452	36.0	36.0	

Test Date: Jun. 05, 2012 Temperature: 25° C Atmospheric pressure: 1020 hPa Humidity: 65%

Modulation Standard	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		
		(**** :=)	ANT R	ANT L	
	149	5745	16.4	16.4	
802.11a (54Mbps)	157	5785	16.6	16.3	
	165	5825	16.6	16.5	
000 44 on LIT00	149	5745	17.6	17.6	
802.11an HT20 (130Mbps)	157	5785	17.5	17.5	
(1301/1003)	165	5825	17.5	17.6	
802.11n HT40 (270Mbps)	151	5755	36.0	36.3	
	155	5775			
	159	5795	35.8	36.0	

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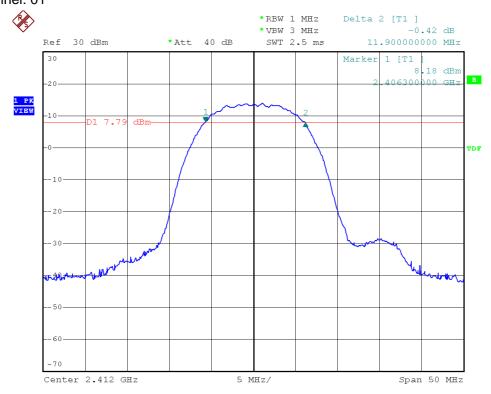
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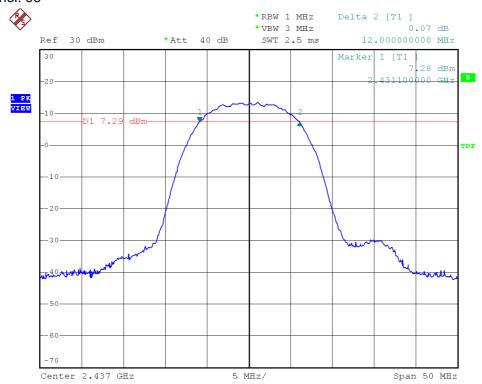
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Modulation Standard: 802.11b (11Mbps), ANT R Channel: 01



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

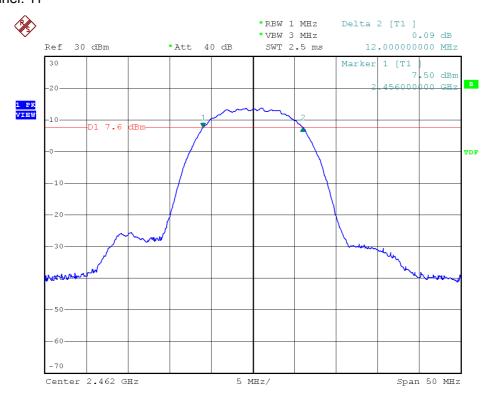


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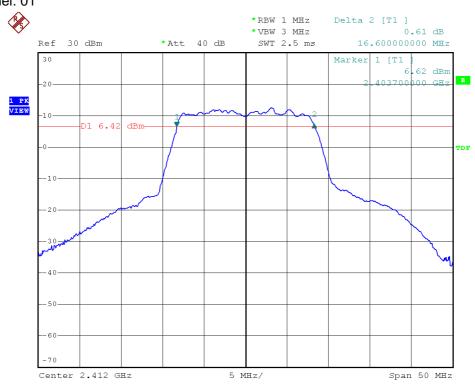
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Modulation Standard: 802.11b (11Mbps), ANT R Channel: 11



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

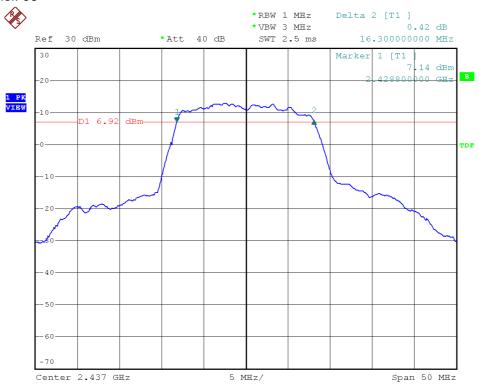


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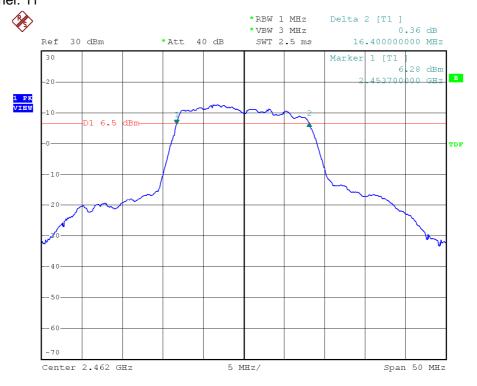
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Modulation Standard: 802.11g (54Mbps), ANT R Channel: 06



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

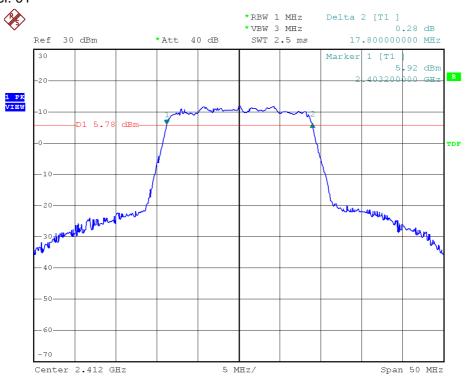


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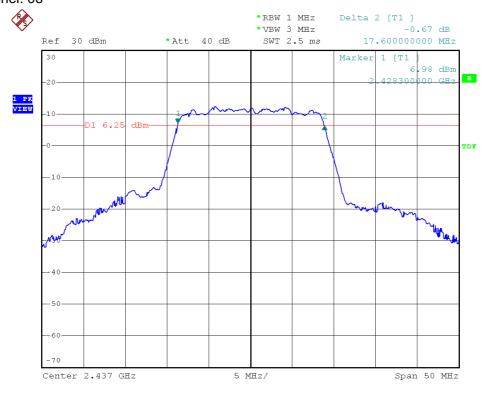
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Modulation Standard: 802.11n HT20 (130Mbps), ANT R Channel: 01



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

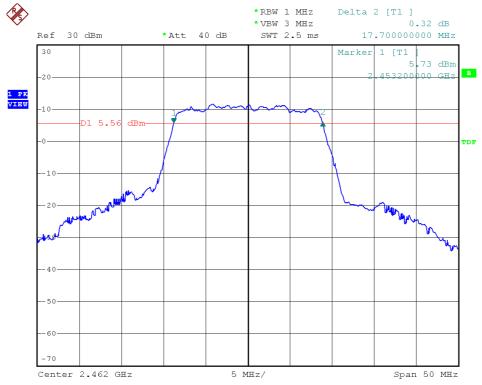


Tel:886-2-2655-8100 Fax:886-2-2655-8200

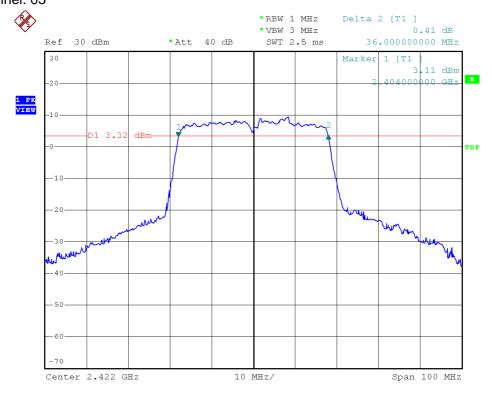
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Modulation Standard: 802.11n HT20 (130Mbps), ANT R Channel: 11



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

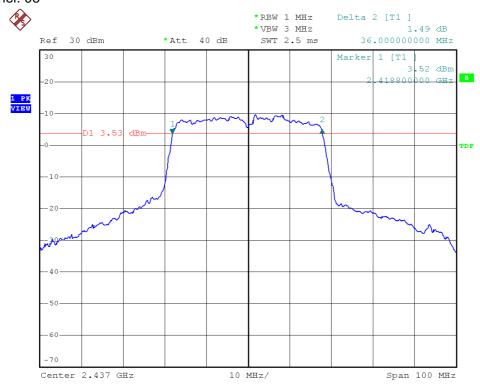


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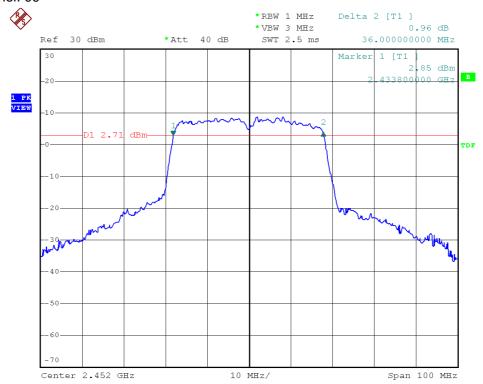
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Modulation Standard: 802.11n HT40 (270Mbps), ANT R Channel: 06



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

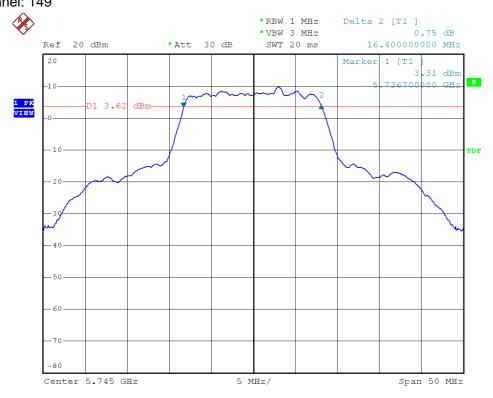


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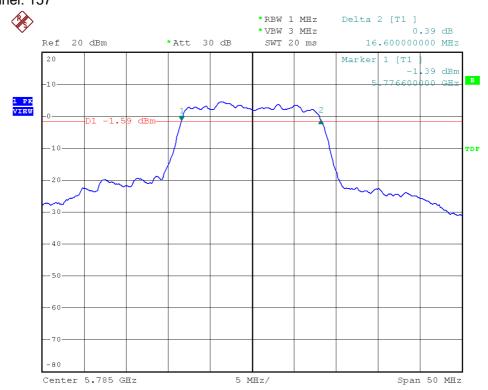
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Modulation Standard: 802.11a (54Mbps), ANT R Channel: 149



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



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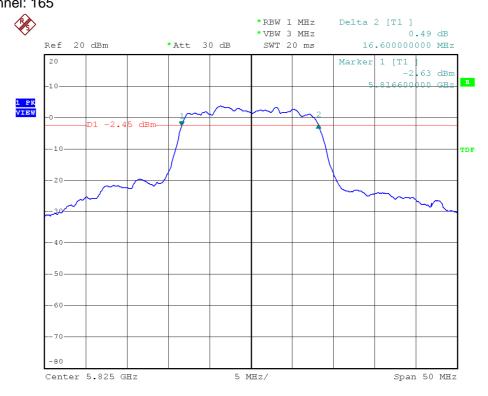
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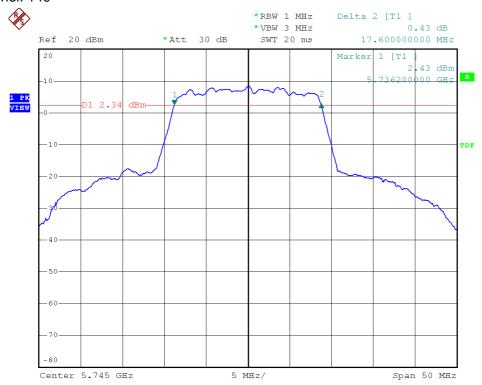
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Modulation Standard: 802.11a (54Mbps), ANT R Channel: 165



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

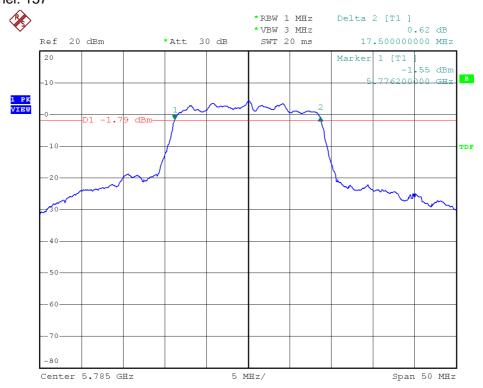


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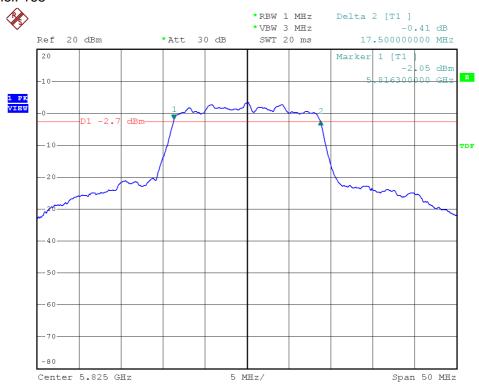
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Modulation Standard: 802.11an HT20 (130Mbps), ANT R Channel: 157



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

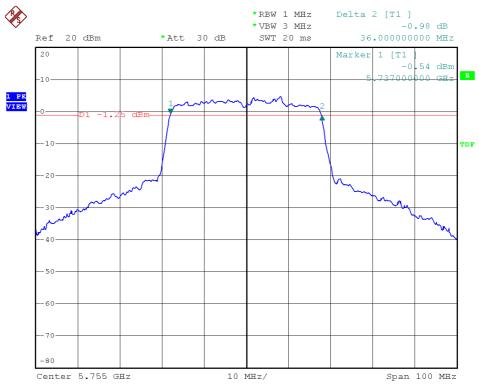


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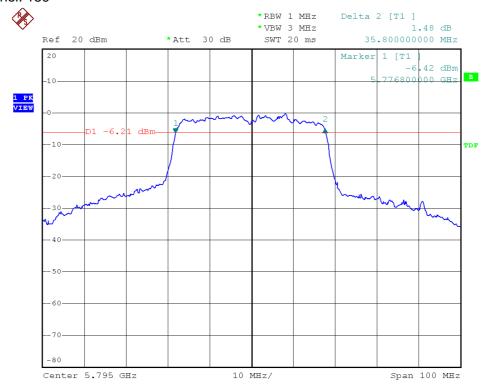
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Modulation Standard: 802.11an HT40 (270Mbps), ANT R Channel: 151



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

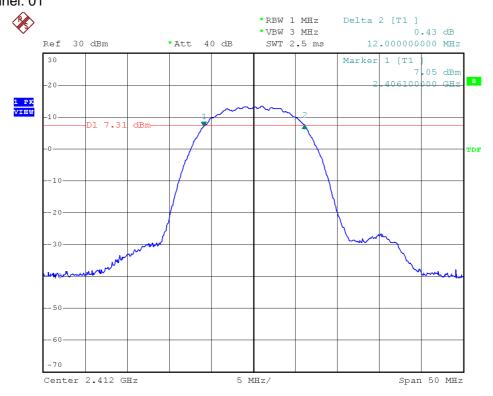


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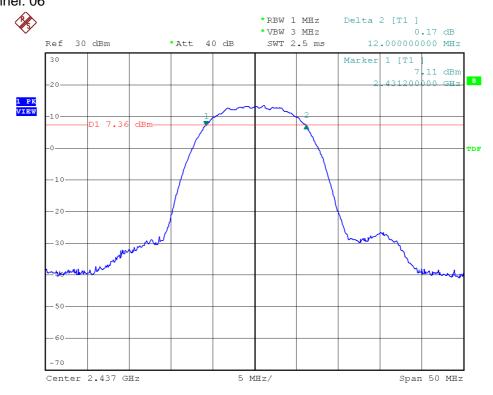
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Modulation Standard: 802.11b (11Mbps), ANT L Channel: 01



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



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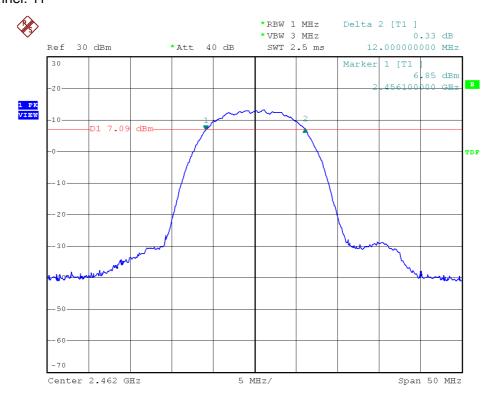
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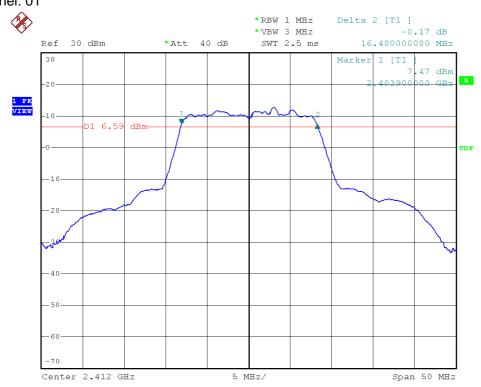
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Modulation Standard: 802.11b (11Mbps), ANT L Channel: 11



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

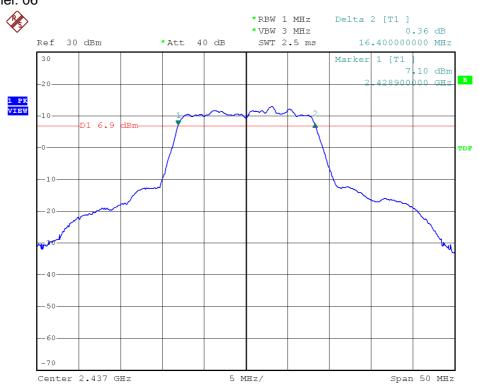


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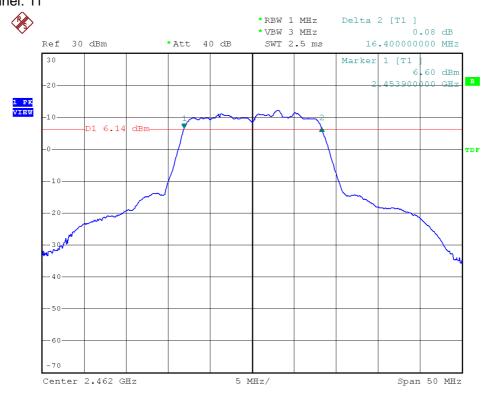
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Modulation Standard: 802.11g (54Mbps), ANT L Channel: 06



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

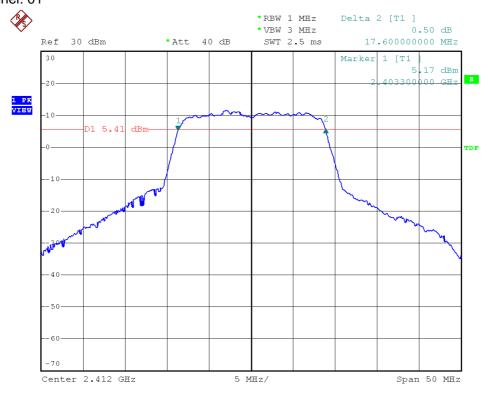


Tel:886-2-2655-8100 Fax:886-2-2655-8200

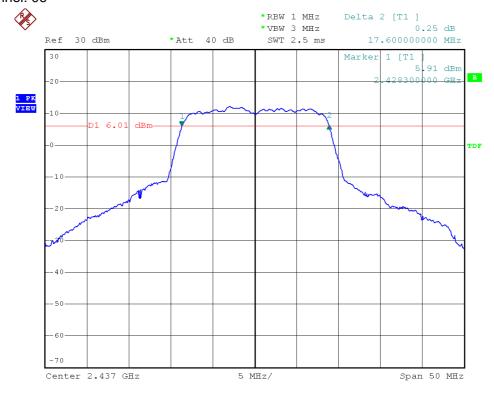
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Modulation Standard: 802.11n HT20 (130Mbps), ANT L Channel: 01



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

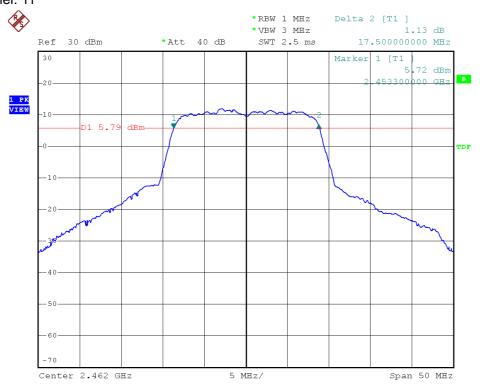


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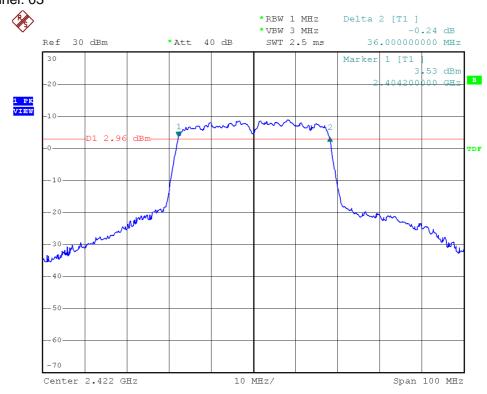
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Modulation Standard: 802.11n HT20 (130Mbps), ANT L Channel: 11



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

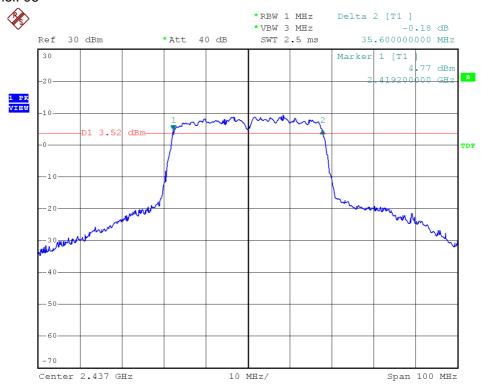


Tel:886-2-2655-8100 Fax:886-2-2655-8200

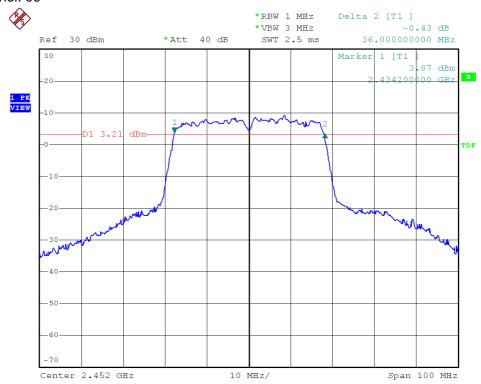
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Modulation Standard: 802.11n HT40 (270Mbps), ANT L Channel: 06



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

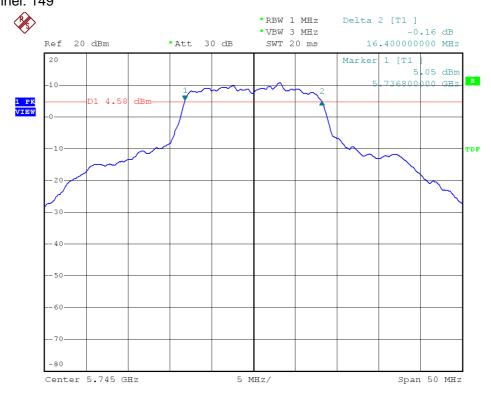


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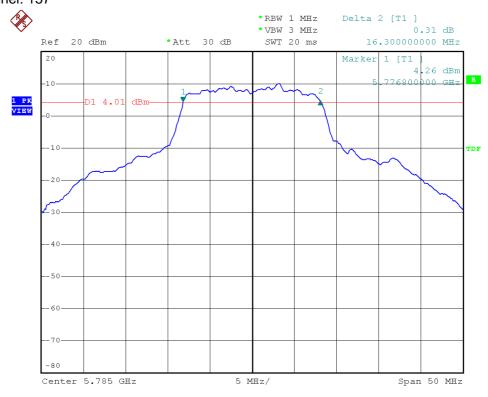
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Modulation Standard: 802.11a (54Mbps), ANT L Channel: 149



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

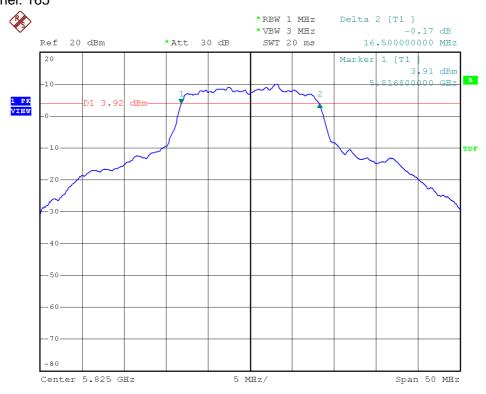


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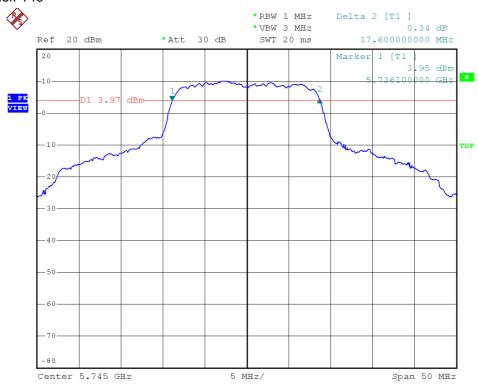
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Modulation Standard: 802.11a (54Mbps), ANT L Channel: 165



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



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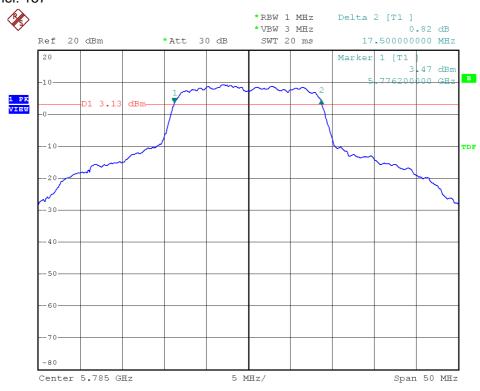
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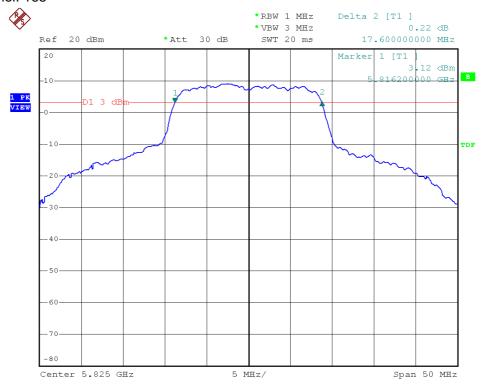
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Modulation Standard: 802.11an HT20 (130Mbps), ANT L Channel: 157



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

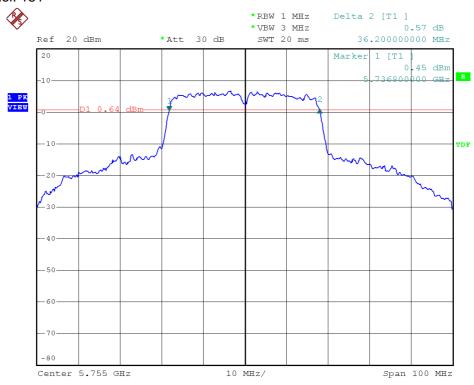


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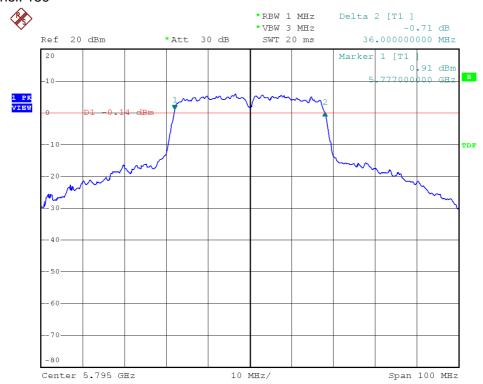
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Modulation Standard: 802.11an HT40 (270Mbps), ANT L Channel: 151



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



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7. Maximum Peak and Average Output Power

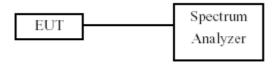
7.1 Test Limit

The Maximum Peak 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

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7.5 Test Result and Data

Test Date: Jun. 01, 2012 Temperature: 25° C Atmospheric pressure: 1020 hPa Humidity: 65%

Modulation Standard	lannal		Peak Po	wer Outpu	Peak Power Output (mW)	
Staridard	(MHz)	ANT R	ANT L	R+L	R+L	
000 441	01	2412	22.50	22.60	25.56	359.80
802.11b (11Mbps)	06	2437	22.86	22.78	25.83	382.87
(Trivibps)	11	2462	22.48	22.44	25.47	352.40
000.44	01	2412	22.36	22.59	25.49	353.74
802.11g (54Mbps)	06	2437	22.86	22.86	25.87	386.39
	11	2462	22.24	22.32	25.29	338.10

Modulation	Channel	Frequency	Peak	Power O (dBm)	Peak Power Output (mW)	
Standard		(MHz)	ANT R	ANT L	R+L	R+L
000 44 . LITOO	01	2412	22.35	22.42	25.40	346.37
802.11n HT20 (130Mbps)	06	2437	22.85	22.87	25.87	386.39
(1301/15/53)	11	2462	22.27	22.47	25.38	345.26
802.11n HT40 (270Mbps)	03	2422	22.35	22.44	25.41	347.18
	06	2437	22.88	22.84	25.87	386.40
(27 0.111000)	09	2452	22.21	22.42	25.33	340.92

Test Date: Jun. 05, 2012 Temperature: 25° C Atmospheric pressure: 1020 hPa Humidity: 65%

Modulation Standard	Channel Frequency (MHz)	Peak Po	wer Outpu	Peak Power Output (mW)		
Stariuaru		(1011 12)	ANT R	ANT L	R+L	R+L
000 44 -	149	5745	19.66	20.41	23.06	202.37
802.11a (54Mbps)	157	5785	14.90	19.96	21.14	129.99
(34101003)	165	5825	14.02	20.05	21.02	126.39
802.11an	149	5745	19.61	20.32	22.99	199.06
HT20 (130Mbps)	157	5785	14.87	19.75	20.97	125.10
	165	5825	13.90	19.84	20.83	120.93
802.11an HT40	151	5755	19.02	20.23	22.68	185.24
	155	5775				
(270Mbps)	159	5795	14.07	19.68	20.73	118.42

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Test Date: Jun. 01, 2012 Temperature: 25° C Atmospheric pressure: 1020 hPa Humidity: 65%

Modulation Standard	Channel	Frequency (MHz)	Average Power Output (dBm)			Average Power Output (mW)
		(1011 12)	ANT R	ANT L	R+L	R+L
000 441	01	2412	18.03	18.35	21.20	131.92
802.11b (11Mbps)	06	2437	18.36	18.53	21.46	139.83
(Trivibps)	11	2462	17.87	18.18	21.04	127.00
802.11g (54Mbps)	01	2412	16.16	16.46	19.32	85.56
	06	2437	16.81	16.77	19.80	95.51
	11	2462	16.05	16.04	19.06	80.45

Modulation	Channel	Frequency	Averag	e Power ((dBm)	Average Power Output (mW)	
Standard		(MHz)	ANT R	ANT L	R+L	R+L
	01	2412	16.12	16.23	19.19	82.90
802.11n HT20 (130Mbps)	06	2437	16.53	16.76	19.66	92.40
(1001/1005)	11	2462	15.88	16.44	19.18	82.78
000 44 - 11740	03	2422	16.23	16.25	19.25	84.15
802.11n HT40 (270Mbps)	06	2437	16.78	16.51	19.66	92.41
(270101000)	09	2452	16.19	16.20	19.21	83.28

Test Date: Jun. 05, 2012 Temperature: 25° C Atmospheric pressure: 1020 hPa Humidity: 65%

Modulation Standard		Frequency (MHz)	Averag	e Power ((dBm)	Average Power Output (mW)	
Stariuaru		(1011 12)	ANT R	ANT L	R+L	R+L
000 44 5	149	5745	11.44	12.32	14.91	30.99
802.11a (54Mbps)	157	5785	6.71	11.88	13.03	20.11
	165	5825	5.67	11.93	12.85	19.29
802.11an	149	5745	11.40	12.30	14.88	30.79
HT20	157	5785	6.49	11.79	12.91	19.56
(130Mbps)	165	5825	5.53	11.88	12.79	18.99
802.11an HT40	151	5755	7.62	11.53	13.01	20.00
	155	5775				
(270Mbps)	159	5795	6.13	11.61	12.69	18.59

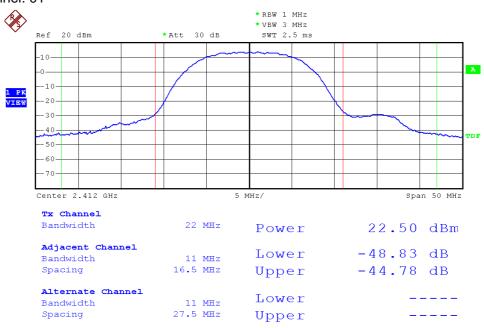
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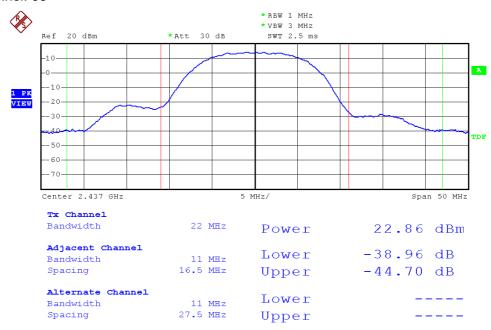
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Modulation Standard: 802.11b (11Mbps), ANT R, Peak Power Output Channel: 01



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



Tel:886-2-2655-8100 Fax:886-2-2655-8200

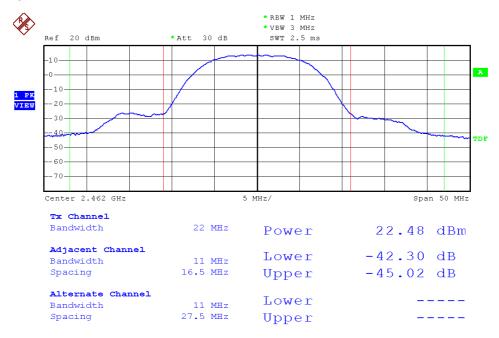
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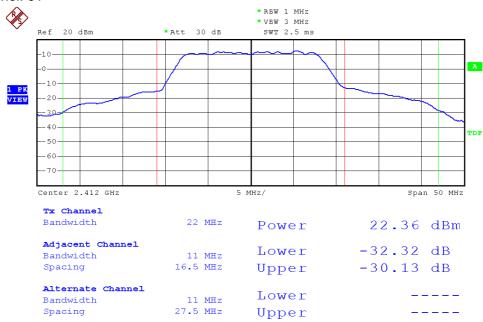
FCC ID : VYTLP-7767



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



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

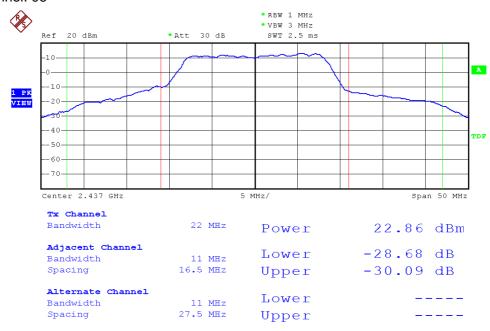


Tel:886-2-2655-8100 Fax:886-2-2655-8200

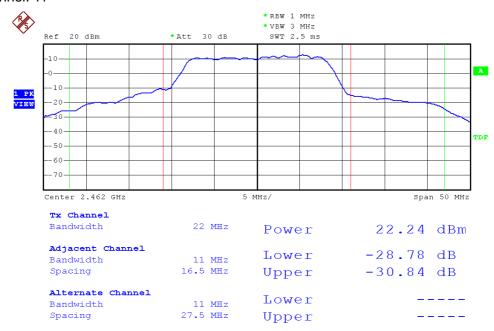
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Modulation Standard: 802.11g (54Mbps), ANT R, Peak Power Output Channel: 06



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



Tel:886-2-2655-8100 Fax:886-2-2655-8200

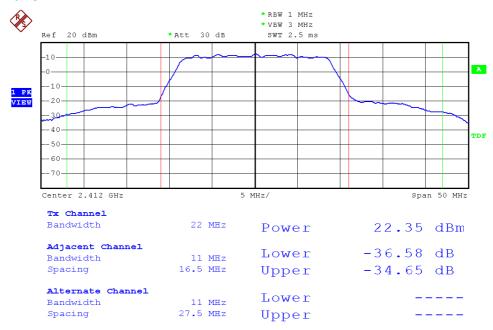
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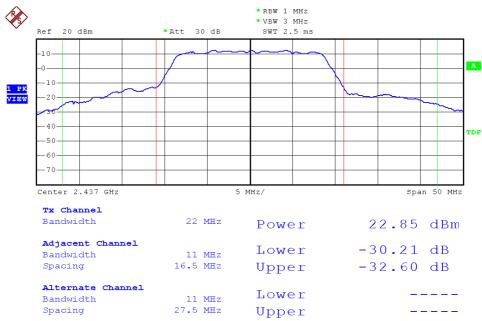
FCC ID : VYTLP-7767



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



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

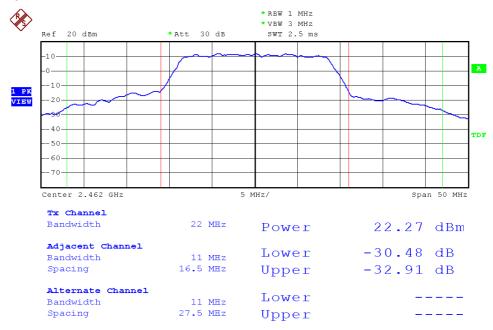


Tel:886-2-2655-8100 Fax:886-2-2655-8200

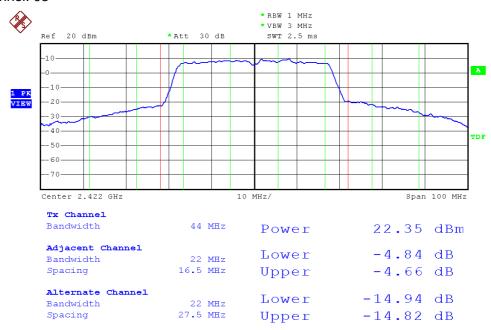
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FCC ID : VYTLP-7767



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



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

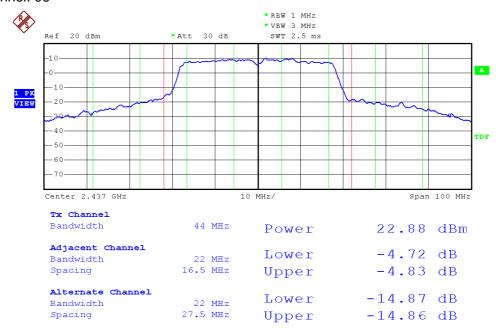


Tel:886-2-2655-8100 Fax:886-2-2655-8200

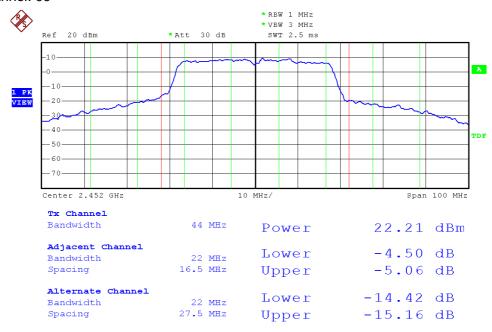
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Modulation Standard: 802.11n HT40 (270Mbps), ANT R, Peak Power Output Channel: 06



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

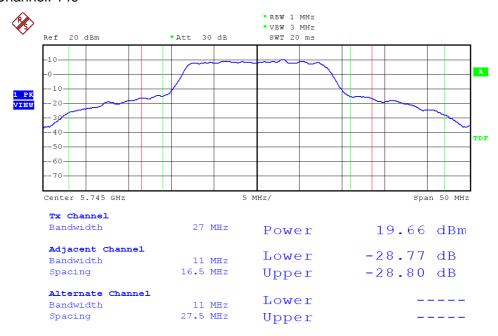


Tel:886-2-2655-8100 Fax:886-2-2655-8200

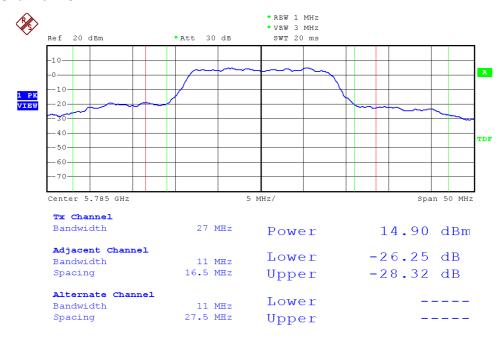
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Modulation Standard: 802.11a (54Mbps), ANT R, Peak Power Output Channel: 149



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

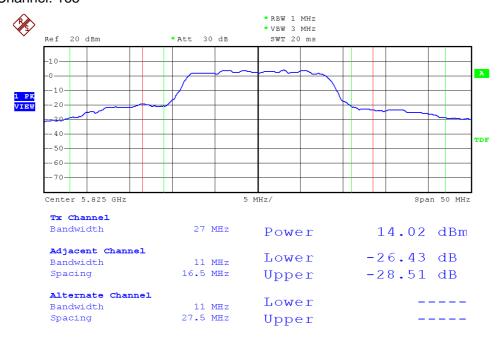


Tel:886-2-2655-8100 Fax:886-2-2655-8200

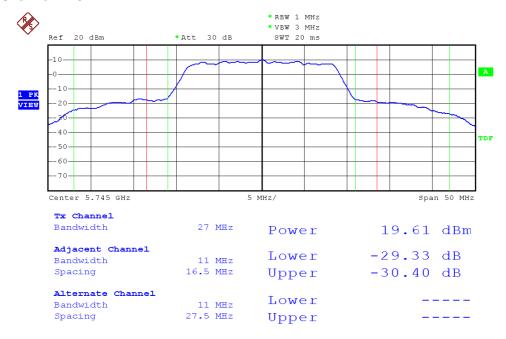
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Modulation Standard: 802.11a (54Mbps), ANT R, Peak Power Output Channel: 165



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



Tel:886-2-2655-8100 Fax:886-2-2655-8200

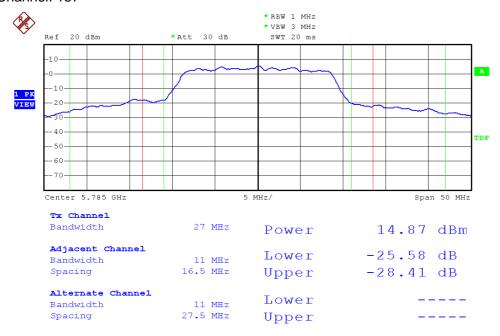
Issued date : Jul. 09, 2012

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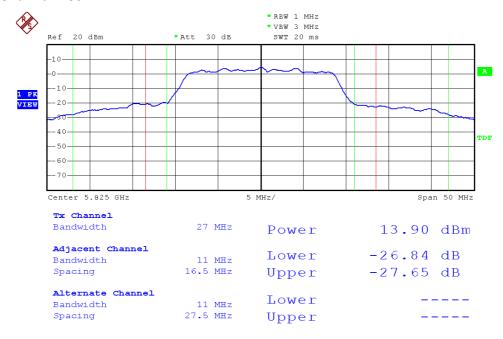
FCC ID : VYTLP-7767



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



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

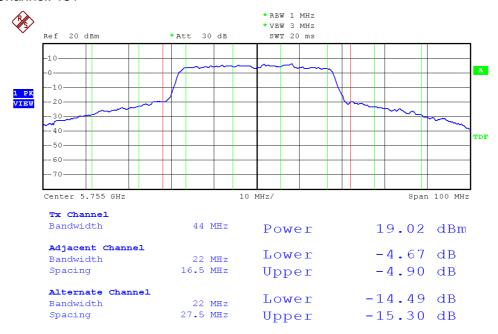


Tel:886-2-2655-8100 Fax:886-2-2655-8200

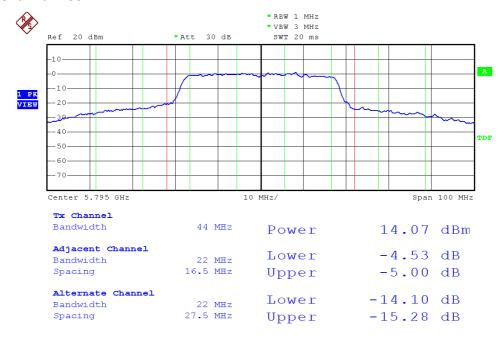
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Modulation Standard: 802.11an HT40 (270Mbps), ANT R, Peak Power Output Channel: 151



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



Tel:886-2-2655-8100 Fax:886-2-2655-8200

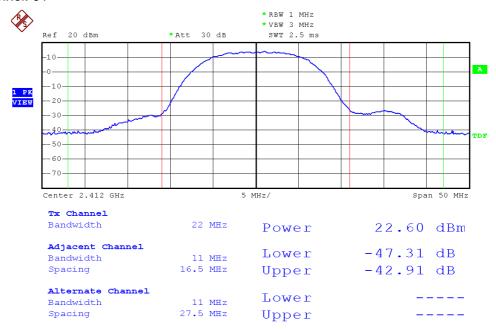
Issued date : Jul. 09, 2012

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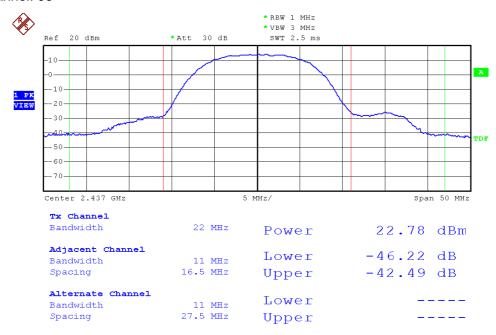
FCC ID : VYTLP-7767



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



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



Tel:886-2-2655-8100 Fax:886-2-2655-8200

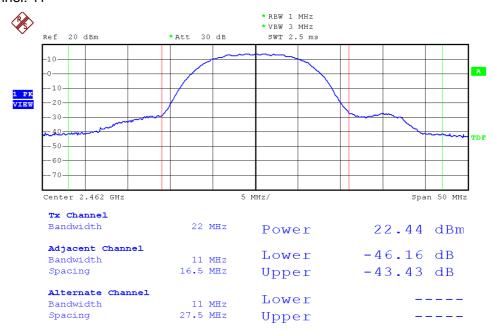
Issued date : Jul. 09, 2012

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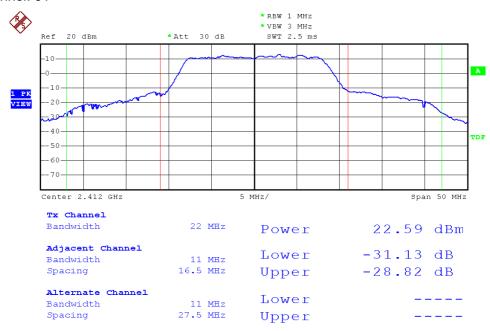
FCC ID : VYTLP-7767



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



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

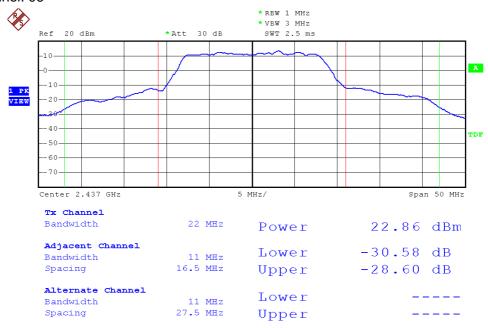


Tel:886-2-2655-8100 Fax:886-2-2655-8200

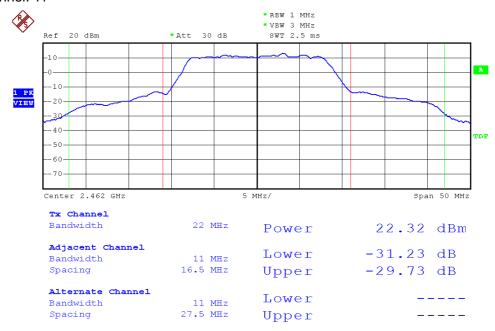
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Modulation Standard: 802.11g (54Mbps), ANT L, Peak Power Output Channel: 06



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

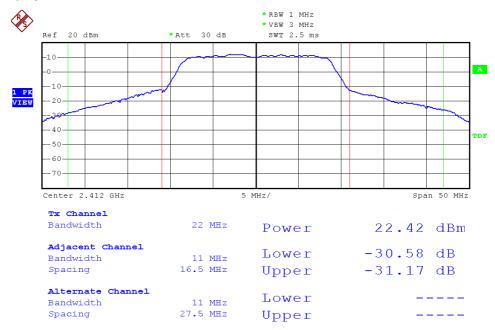


Tel:886-2-2655-8100 Fax:886-2-2655-8200

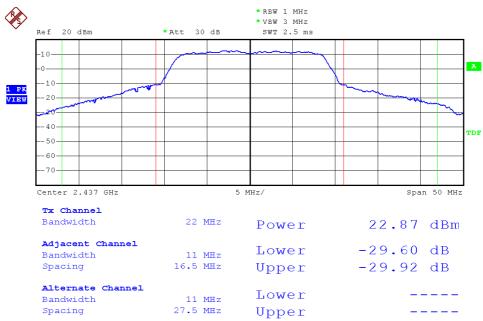
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Modulation Standard: 802.11n HT20 (130Mbps), ANT L, Peak Power Output Channel: 01



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

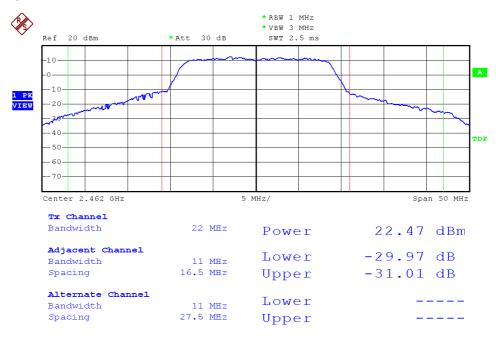


Tel:886-2-2655-8100 Fax:886-2-2655-8200

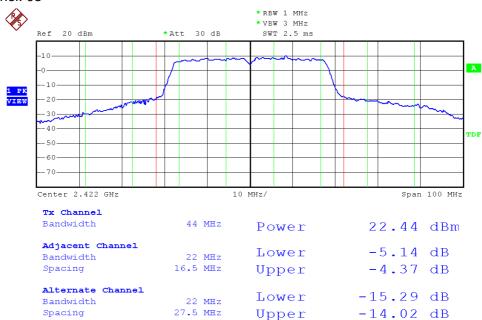
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Modulation Standard: 802.11n HT20 (130Mbps), ANT L, Peak Power Output Channel: 11



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

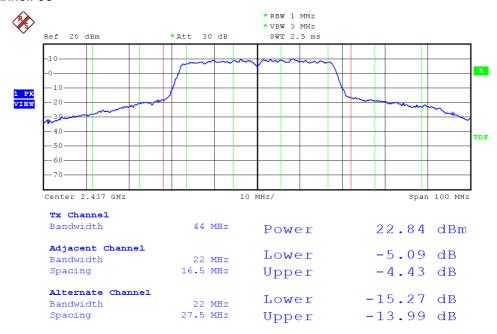


Tel:886-2-2655-8100 Fax:886-2-2655-8200

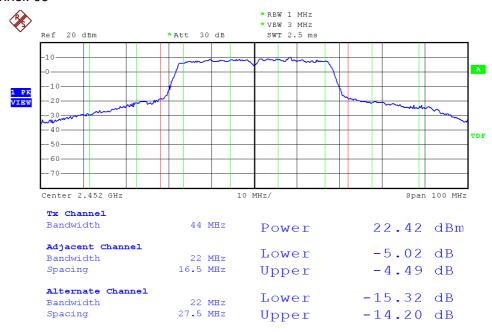
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Modulation Standard: 802.11n HT40 (270Mbps), ANT L, Peak Power Output Channel: 06



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



Tel:886-2-2655-8100 Fax:886-2-2655-8200

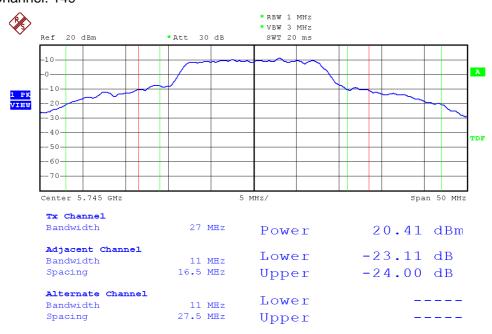
Issued date : Jul. 09, 2012

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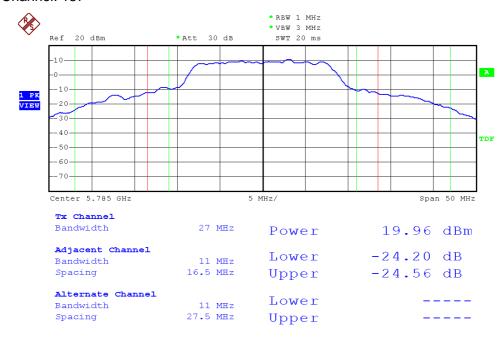
FCC ID : VYTLP-7767



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



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



Tel:886-2-2655-8100 Fax:886-2-2655-8200

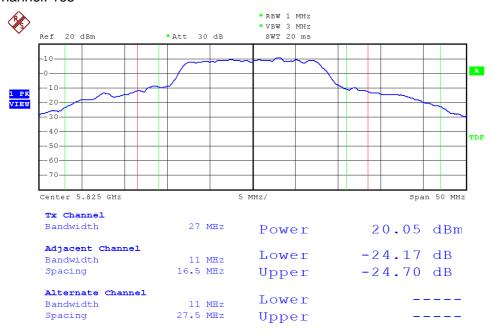
Issued date : Jul. 09, 2012

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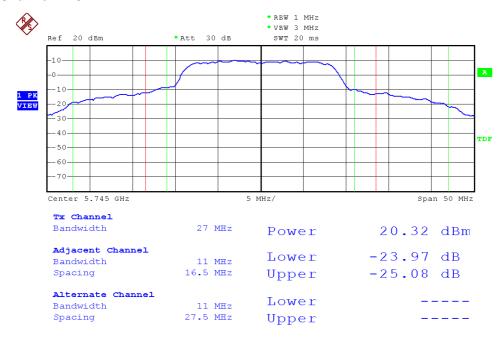
FCC ID : VYTLP-7767



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



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



Tel:886-2-2655-8100 Fax:886-2-2655-8200

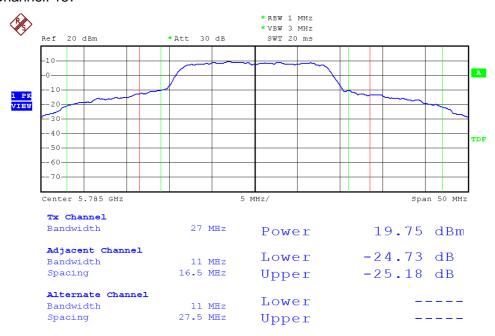
Issued date : Jul. 09, 2012

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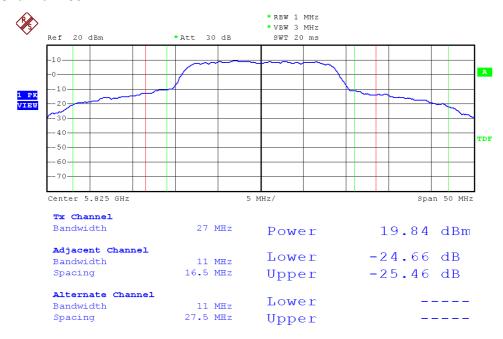
FCC ID : VYTLP-7767



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



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

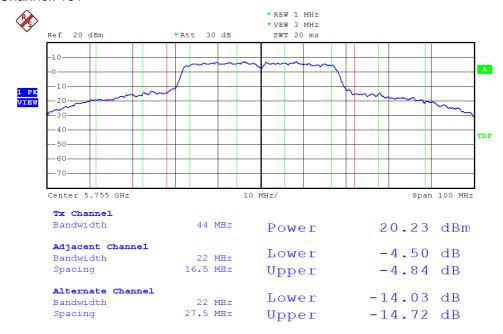


Tel:886-2-2655-8100 Fax:886-2-2655-8200

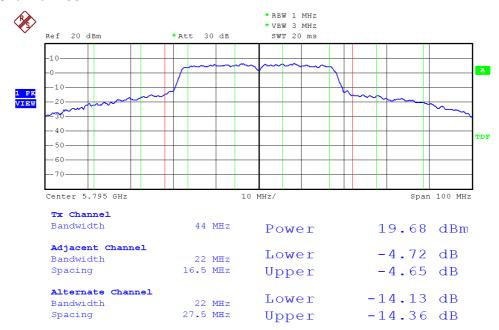
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Modulation Standard: 802.11an HT40 (270Mbps), ANT L, Peak Power Output Channel: 151



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



Tel:886-2-2655-8100 Fax:886-2-2655-8200

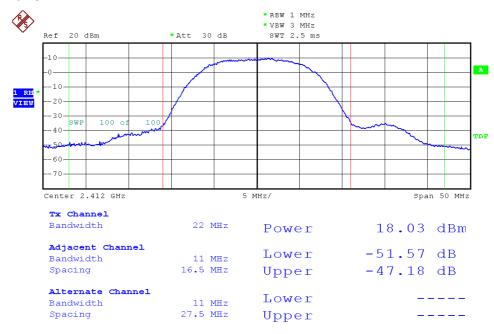
Issued date : Jul. 09, 2012

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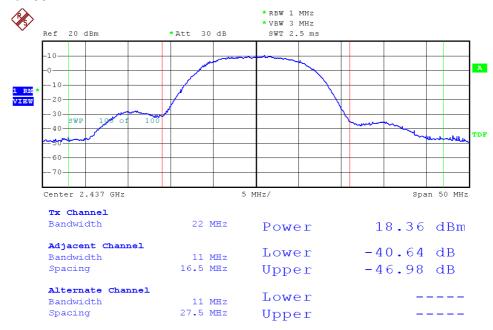
FCC ID : VYTLP-7767



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



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

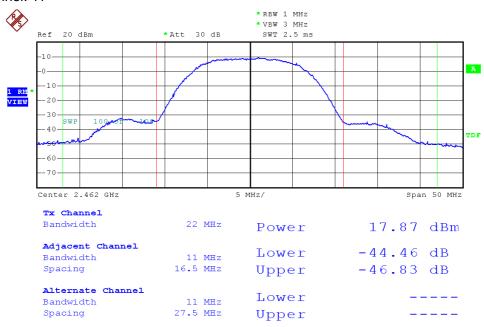


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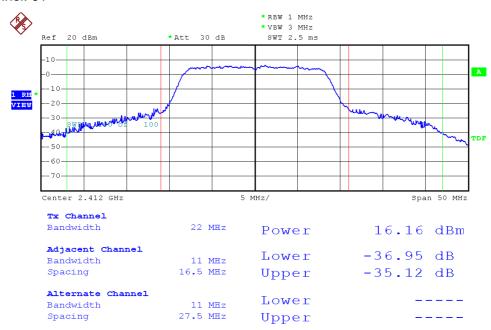
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Modulation Standard: 802.11b (11Mbps), ANT R, Average Power Output Channel: 11



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

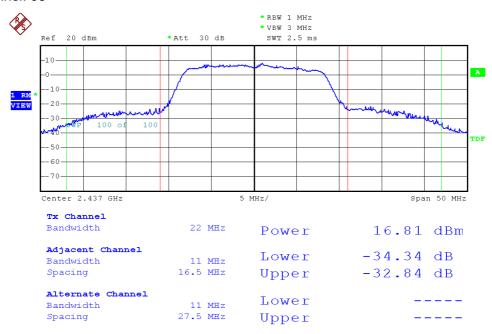


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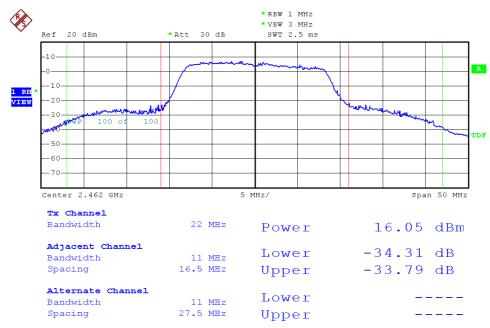
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Modulation Standard: 802.11g (54Mbps), ANT R, Average Power Output Channel: 06



Modulation Standard: 802.11g (6Mbps), ANT R, Average Power Output Channel: 11



Tel:886-2-2655-8100 Fax:886-2-2655-8200

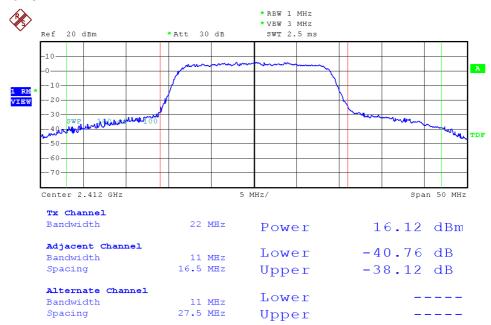
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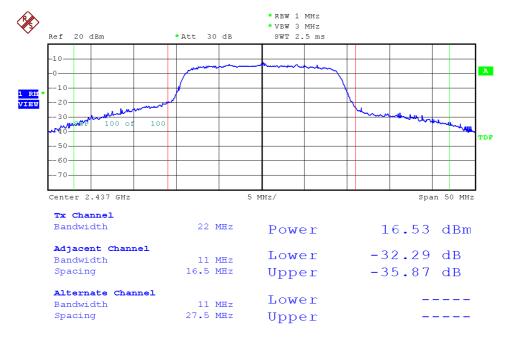
FCC ID : VYTLP-7767



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



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



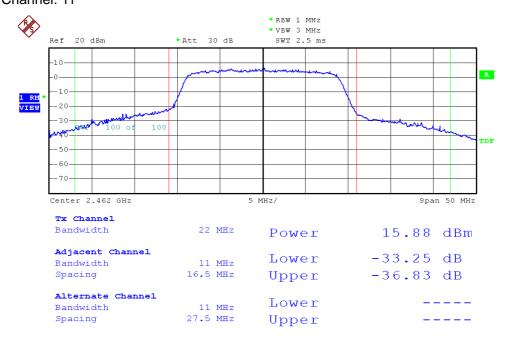
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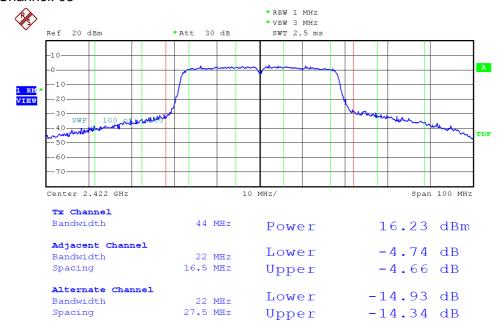


Modulation Standard: 802.11n HT20 (130Mbps), ANT R, Average Power Output Channel: 11

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

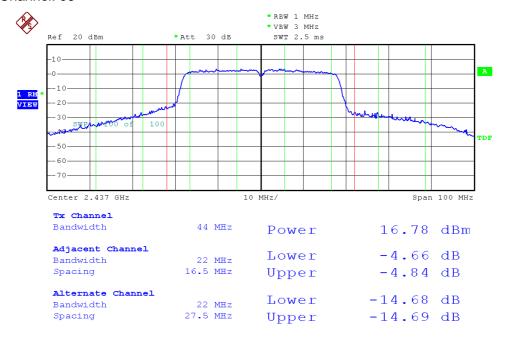


Tel:886-2-2655-8100 Fax:886-2-2655-8200

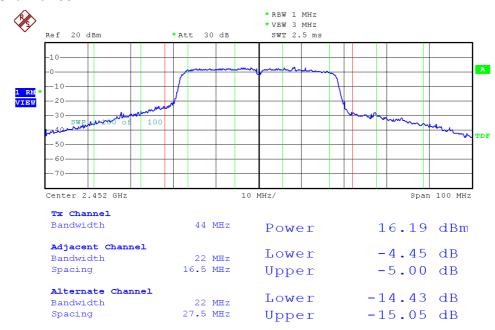
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Modulation Standard: 802.11n HT40 (270Mbps), ANT R, Average Power Output Channel: 06



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



Tel:886-2-2655-8100 Fax:886-2-2655-8200

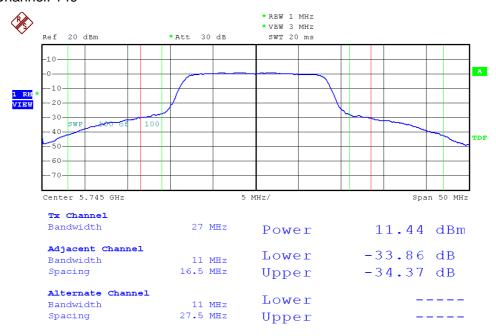
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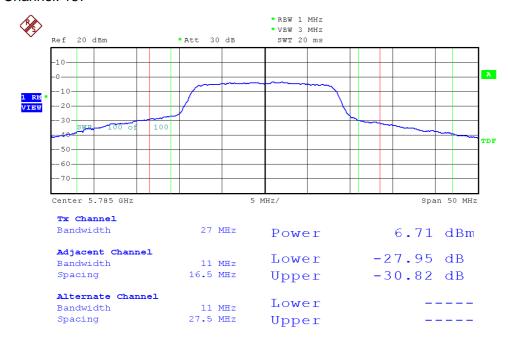
FCC ID : VYTLP-7767



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



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

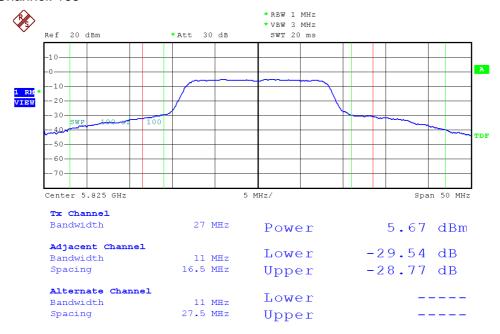


Tel:886-2-2655-8100 Fax:886-2-2655-8200

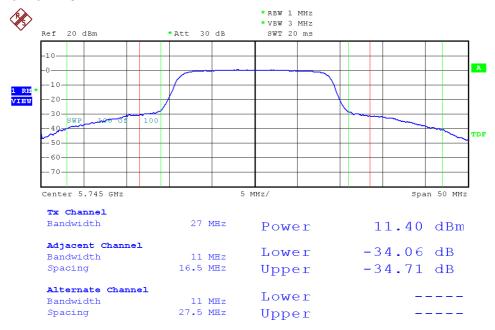
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Modulation Standard: 802.11a (54Mbps), ANT R, Average Power Output Channel: 165



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



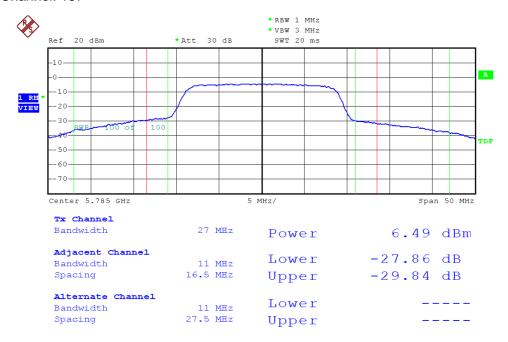
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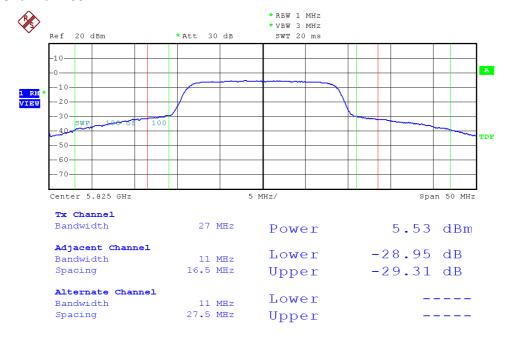
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Modulation Standard: 802.11an HT20 (130Mbps), ANT R, Average Power Output Channel: 157



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



Tel:886-2-2655-8100 Fax:886-2-2655-8200

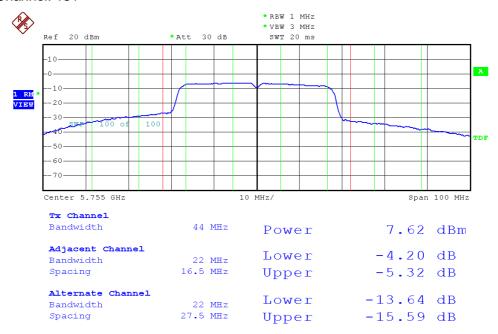
Issued date : Jul. 09, 2012

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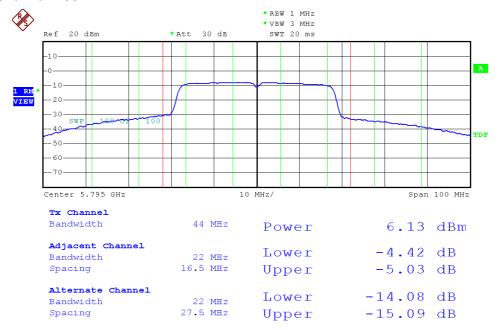
FCC ID : VYTLP-7767



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



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



Tel:886-2-2655-8100 Fax:886-2-2655-8200

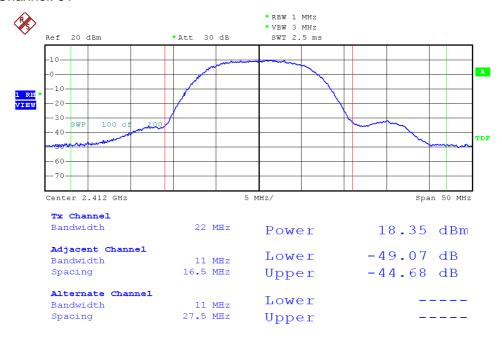
Issued date : Jul. 09, 2012

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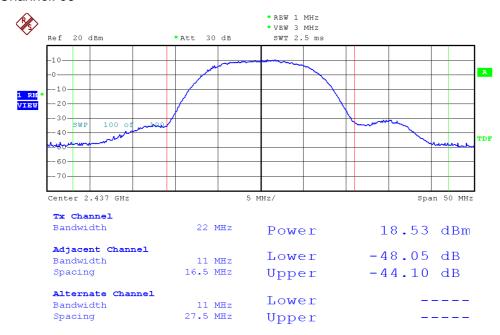
FCC ID : VYTLP-7767



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



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



Tel:886-2-2655-8100 Fax:886-2-2655-8200

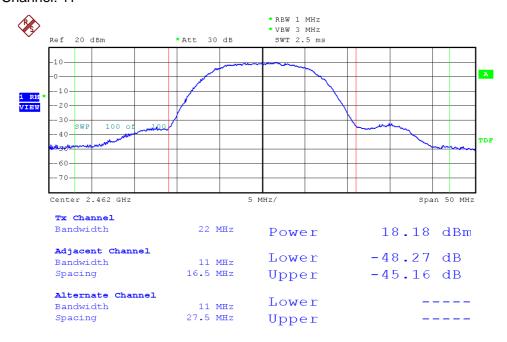
Issued date : Jul. 09, 2012

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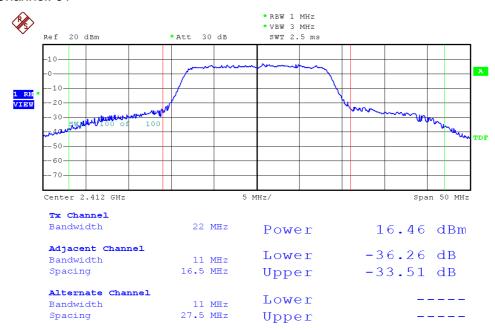
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Modulation Standard: 802.11b (11Mbps), ANT L, Average Power Output Channel: 11



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

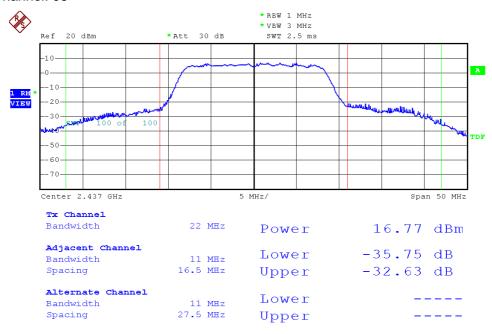


Tel:886-2-2655-8100 Fax:886-2-2655-8200

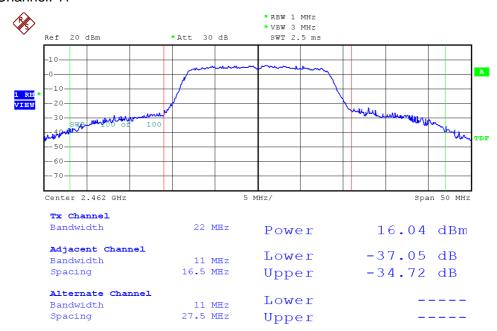
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Modulation Standard: 802.11g (54Mbps), ANT L, Average Power Output Channel: 06



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



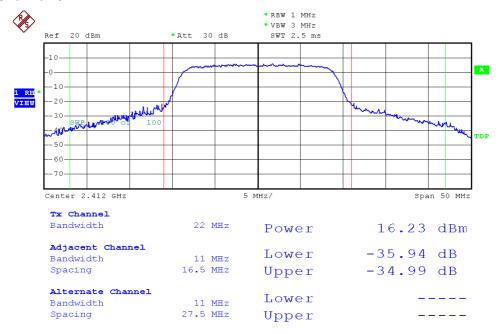
Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Jul. 09, 2012

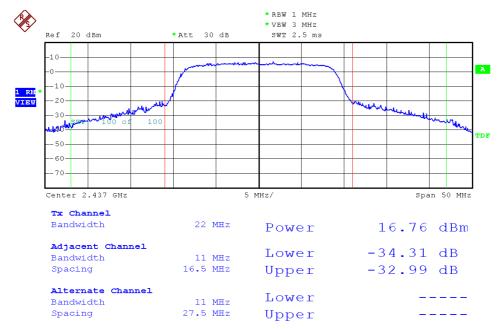
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Modulation Standard: 802.11n HT20 (130Mbps), ANT L, Average Power Output Channel: 01



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

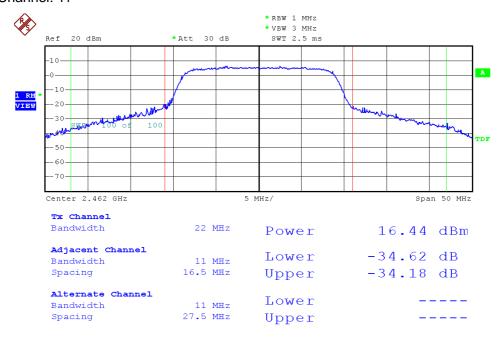


Tel:886-2-2655-8100 Fax:886-2-2655-8200

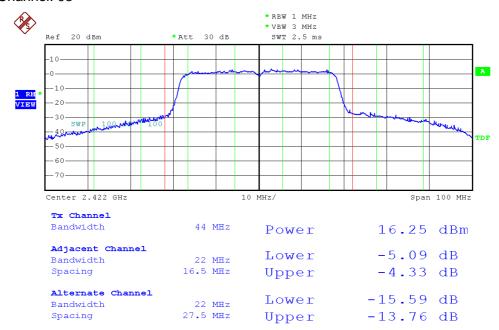
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Modulation Standard: 802.11n HT20 (130Mbps), ANT L, Average Power Output Channel: 11



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

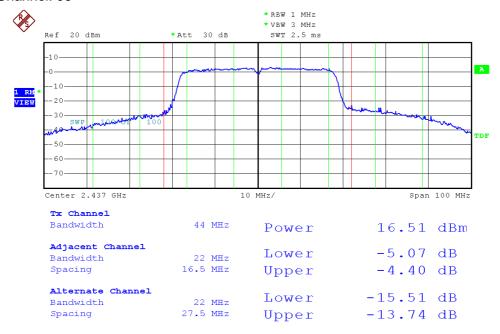


Tel:886-2-2655-8100 Fax:886-2-2655-8200

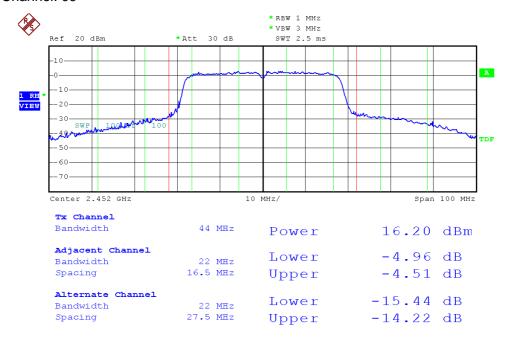
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Modulation Standard: 802.11n HT40 (270Mbps), ANT L, Average Power Output Channel: 06



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



Tel:886-2-2655-8100 Fax:886-2-2655-8200

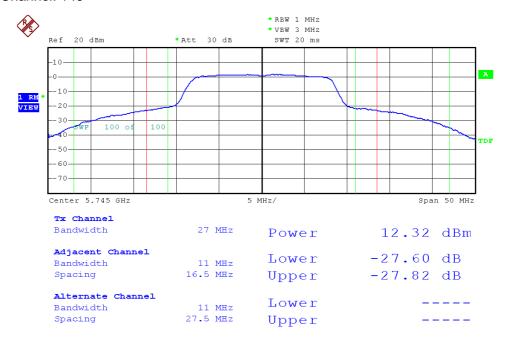
Issued date : Jul. 09, 2012

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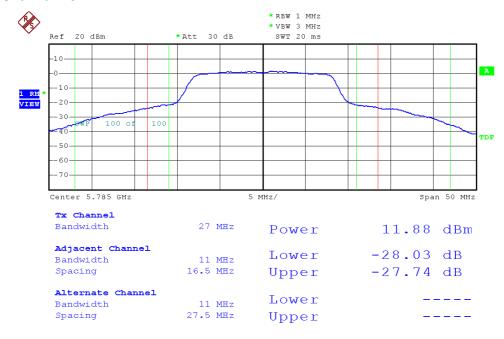
FCC ID : VYTLP-7767



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



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



Tel:886-2-2655-8100 Fax:886-2-2655-8200

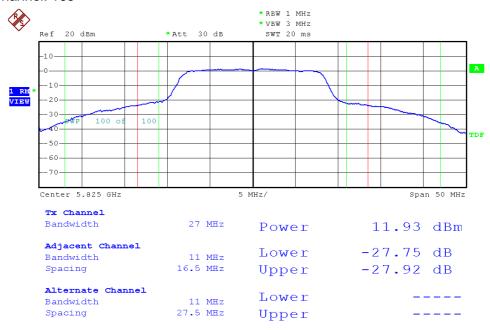
Issued date : Jul. 09, 2012

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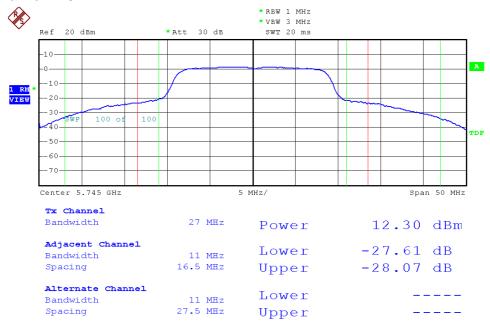
FCC ID : VYTLP-7767



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



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



Tel:886-2-2655-8100 Fax:886-2-2655-8200

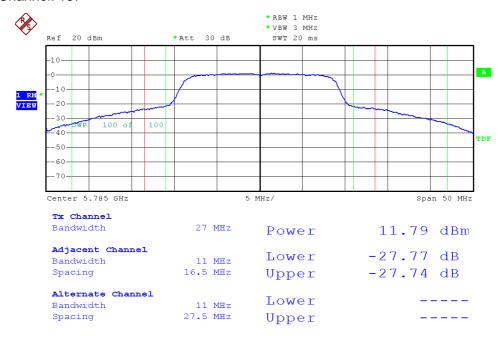
Issued date : Jul. 09, 2012

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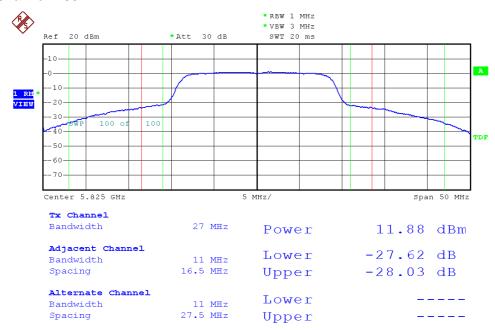
FCC ID : VYTLP-7767



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



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



Tel:886-2-2655-8100 Fax:886-2-2655-8200

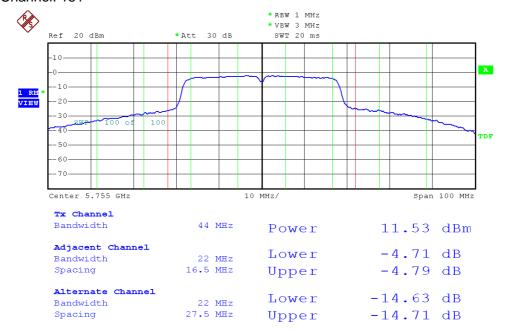
Issued date : Jul. 09, 2012

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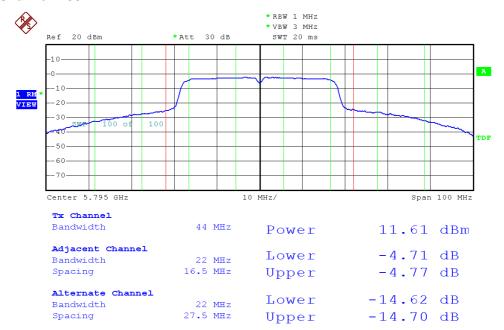
FCC ID : VYTLP-7767



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



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



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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= 10log (3 kHz/100 = -15.2 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

Cerpass Technology Corp.Tel:886-2-2655-8100 Fax:886-2-2655-8200

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8.5 Test Result and Data

Test Date: Jun. 01, 2012 Temperature: 25° C Atmospheric pressure: 1020 hPa Humidity: 65%

Modulation Standard	Channel	Frequency (MHz)	Maximum Power Density of 3 kHz Bandwidth (dBm)		
		(IVIHZ)	ANT R	ANT L	
802.11b (11Mbps)	01	2412	-9.65	-10.23	
	06	2437	-9.31	-10.11	
	11	2462	-9.65	-10.44	
802.11g (54Mbps)	01	2412	-13.64	-13.80	
	06	2437	-13.18	-13.47	
	11	2462	-13.64	-14.39	

Modulation Standard	Channel	Frequency (MHz)	Maximum Power Density of 3 kHz Bandwidth (dBm)		
			ANT R	ANT L	R+L
802.11n HT20 (130Mbps)	01	2412	-14.08	-14.58	-11.31
	06	2437	-13.71	-13.80	-10.74
	11	2462	-13.91	-14.05	-10.97
802.11n HT40 (270Mbps)	03	2422	-16.70	-16.92	-13.80
	06	2437	-16.39	-16.44	-13.40
	09	2452	-17.08	-16.75	-13.90

Test Date: Jun. 05, 2012 Temperature: 25° C Atmospheric pressure: 1020 hPa Humidity: 65%

Modulation Standard	Channel	Frequency (MHz)	Maximum Power Density of 3 kHz Bandwidth (dBm)		
			ANT R	ANT L	
802.11a (54Mbps)	149	5745	-15.13	-13.58	
	157	5785	-19.49	-14.50	
	165	5825	-21.20	-14.33	

Modulation Standard	Channel	Frequency (MHz)	Maximum Power Density of 3 kHz Bandwidth (dBm)		
			ANT R	ANT L	R+L
802.11an HT20 (130Mbps)	149	5745	-16.20	-14.20	-12.08
	157	5785	-20.65	-15.01	-13.96
	165	5825	-21.53	-15.31	-14.38
802.11an HT40 (270Mbps)	151	5755	-19.35	-17.26	-15.17
	155	5775			
	159	5795	-24.36	-17.00	-16.27

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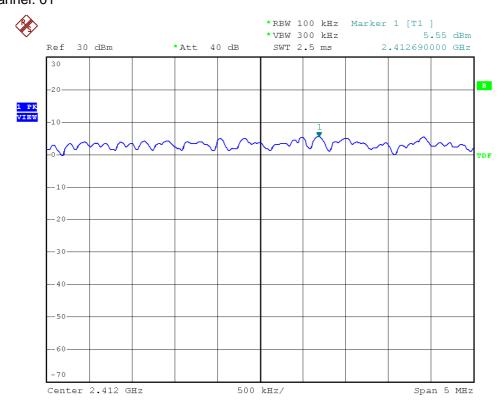
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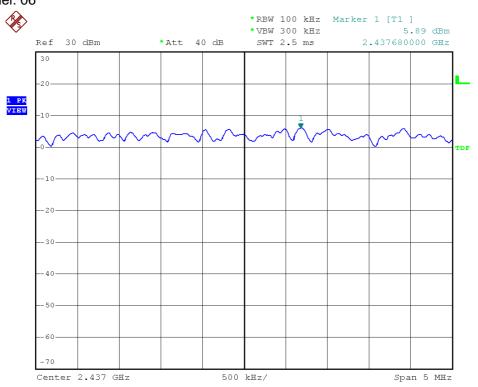
 FCC ID
 :
 VYTLP-7767



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



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

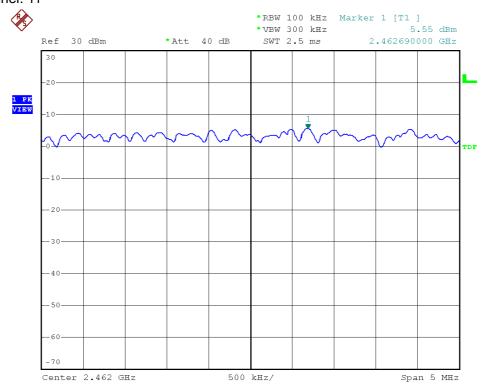


Tel:886-2-2655-8100 Fax:886-2-2655-8200

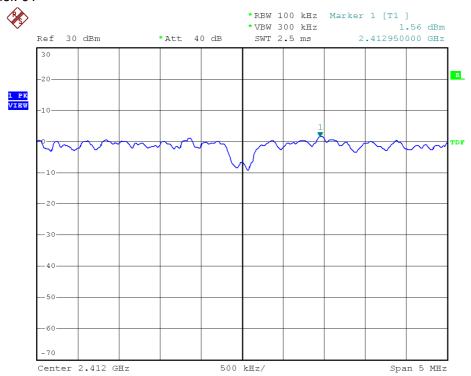
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Modulation Standard: 802.11b (11Mbps), ANT R Channel: 11



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

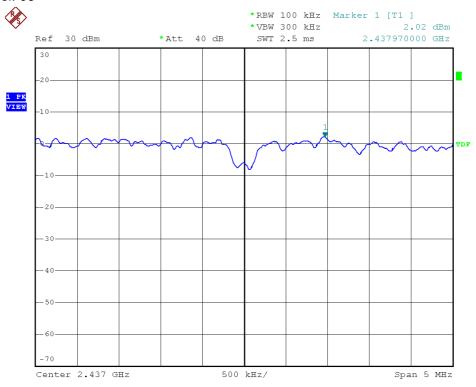


Tel:886-2-2655-8100 Fax:886-2-2655-8200

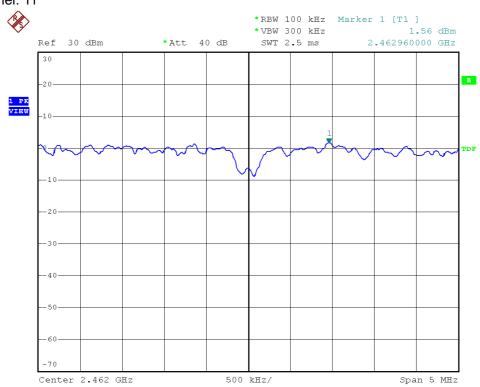
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Modulation Standard: 802.11g (54Mbps), ANT R Channel: 06



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

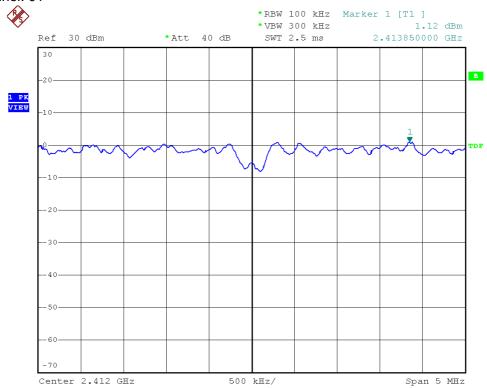


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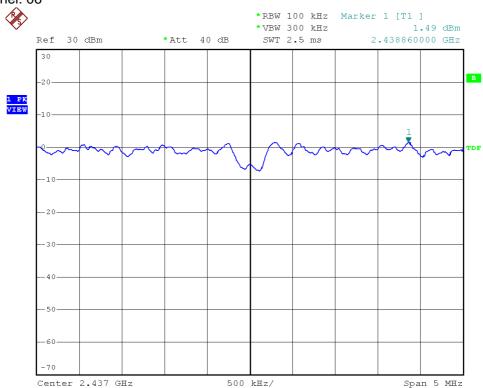
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Modulation Standard: 802.11n HT20 (130Mbps), ANT R Channel: 01



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

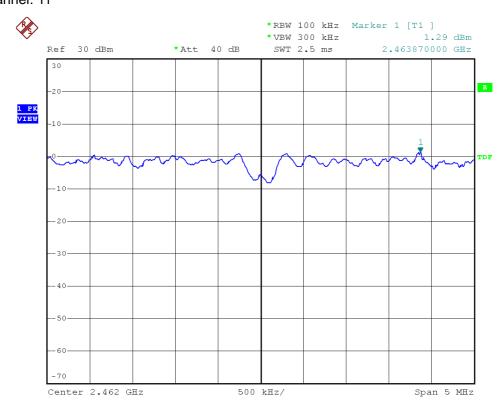


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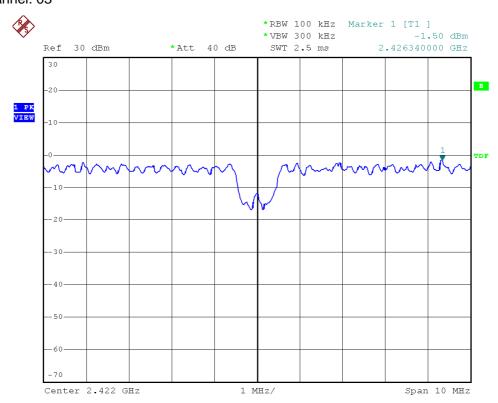
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Modulation Standard: 802.11n HT20 (130Mbps), ANT R Channel: 11



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

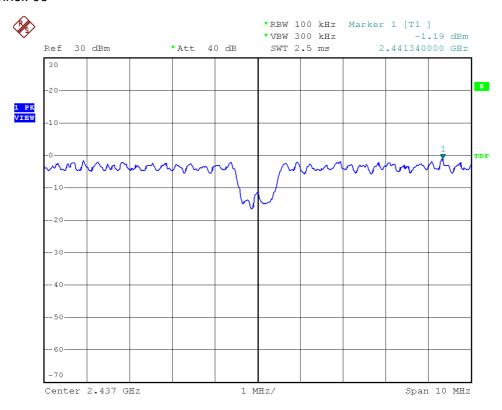


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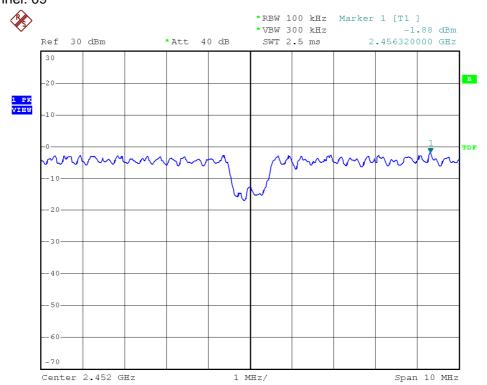
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Modulation Standard: 802.11n HT40 (270Mbps), ANT R Channel: 06



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

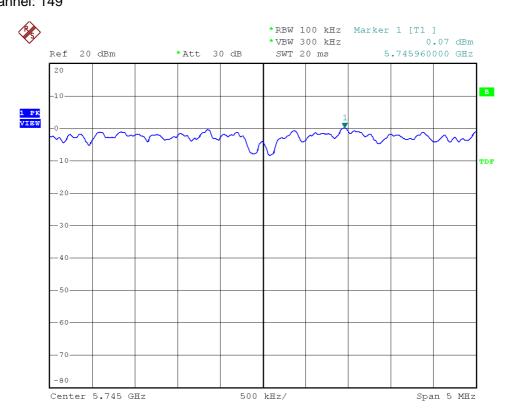


Tel:886-2-2655-8100 Fax:886-2-2655-8200

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ERPASS TECHNOLOGY CORP. Report No.: TEFI1111093

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



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



Tel:886-2-2655-8100 Fax:886-2-2655-8200

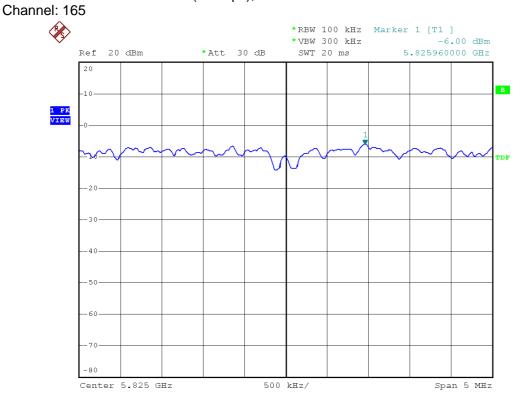
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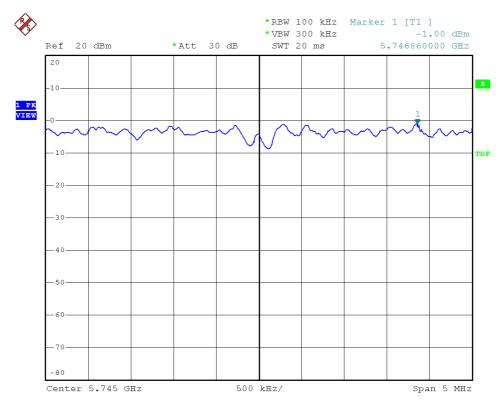
 FCC ID
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 VYTLP-7767



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



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

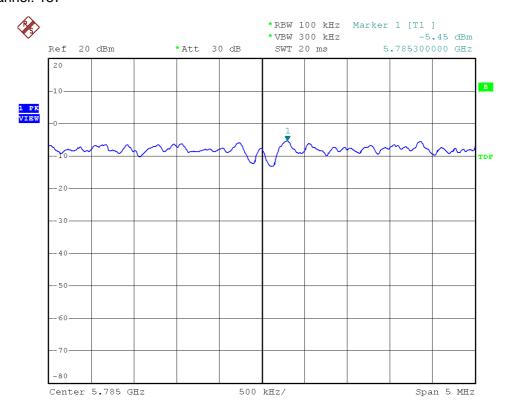


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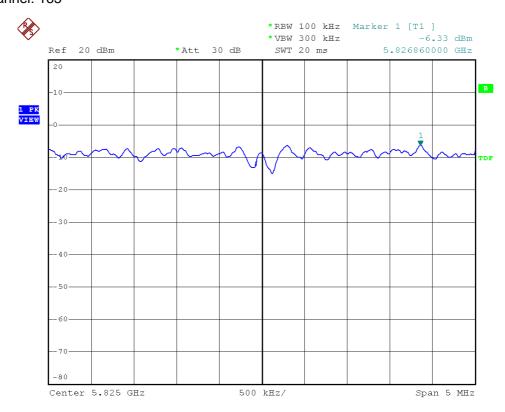
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Modulation Standard: 802.11an HT20 (130Mbps), ANT R Channel: 157



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



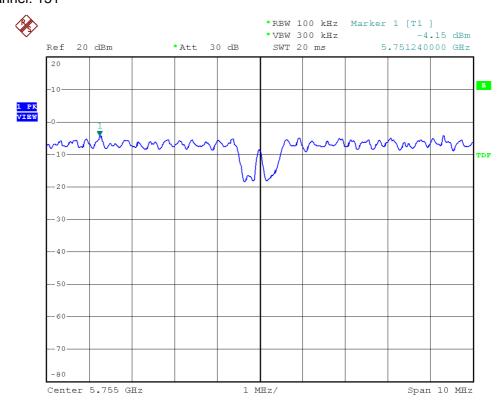
Cerpass Technology Corp.

Tel:886-2-2655-8100 Fax:886-2-2655-8200

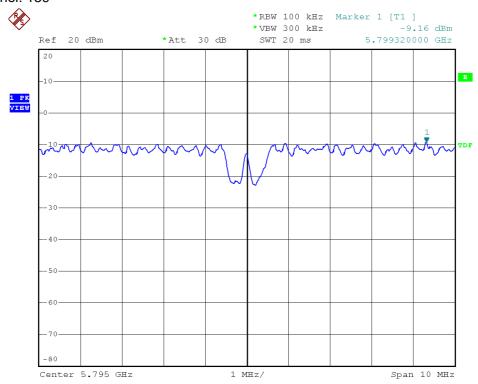
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Modulation Standard: 802.11an HT40 (270Mbps), ANT R Channel: 151



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

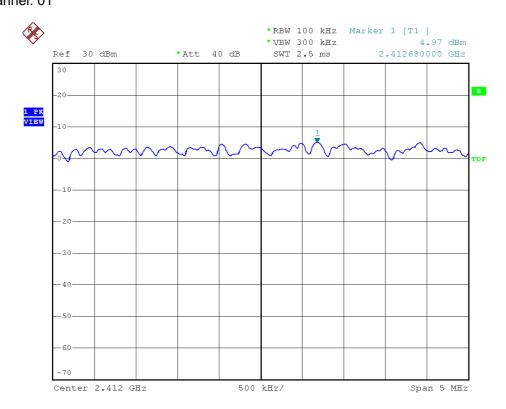


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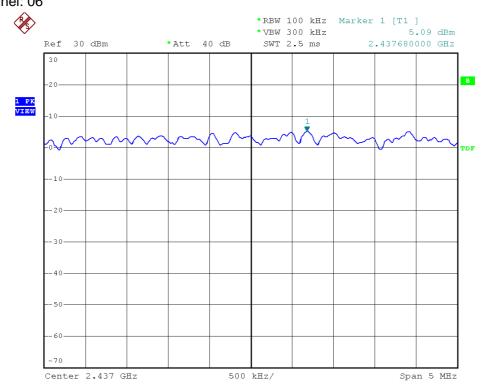
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Modulation Standard: 802.11b (11Mbps), ANT L Channel: 01



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

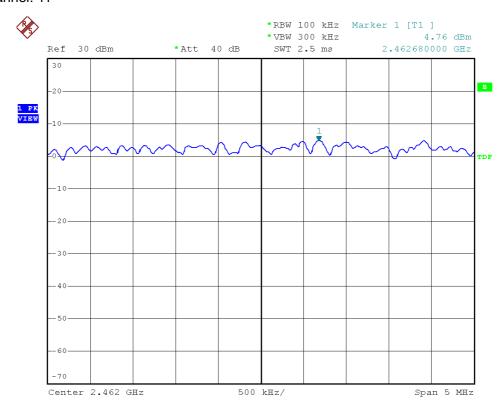


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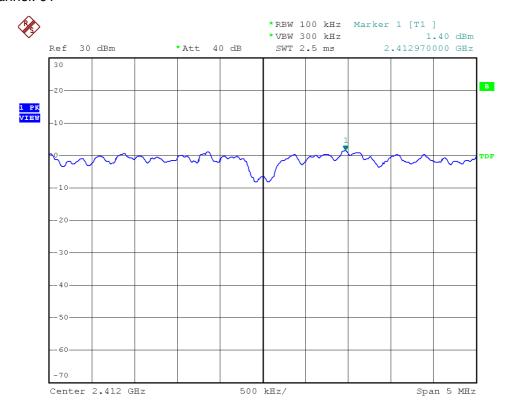
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Modulation Standard: 802.11b (11Mbps), ANT L Channel: 11



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

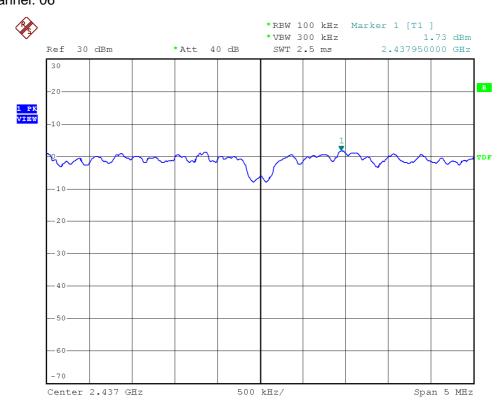


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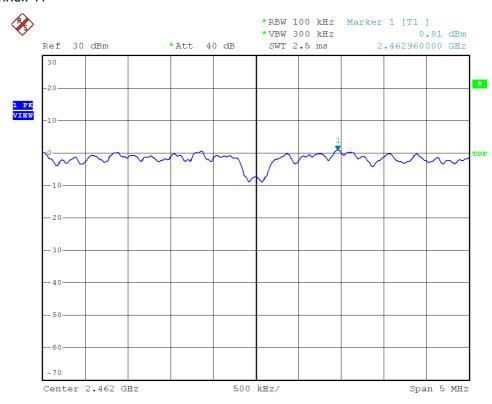
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Modulation Standard: 802.11g (54Mbps), ANT L Channel: 06



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

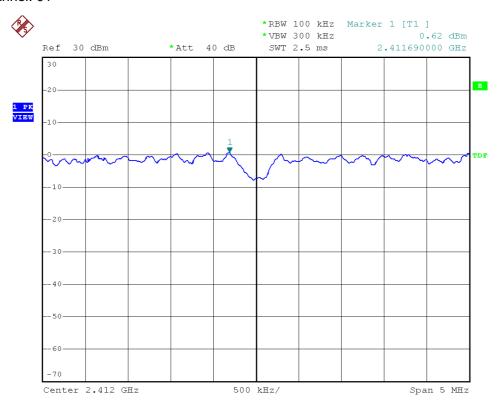


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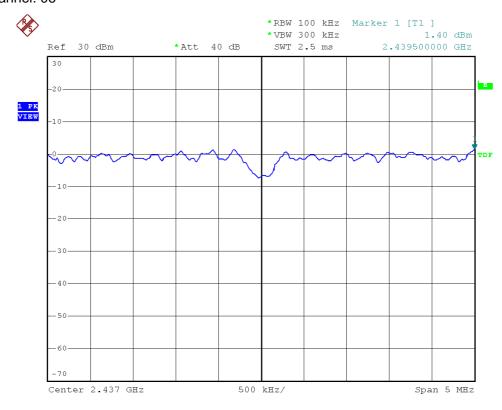
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Modulation Standard: 802.11n HT20 (130Mbps), ANT L Channel: 01



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

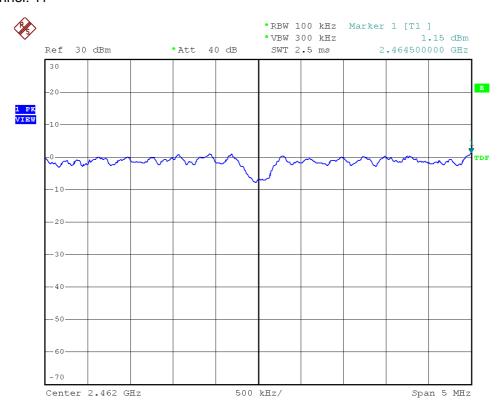


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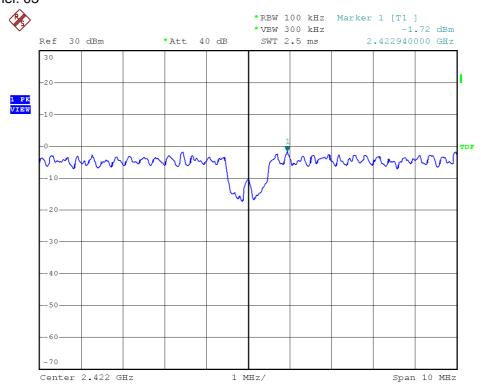
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Modulation Standard: 802.11n HT20 (130Mbps), ANT L Channel: 11



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

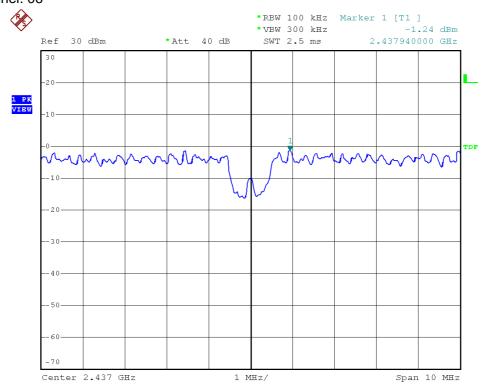


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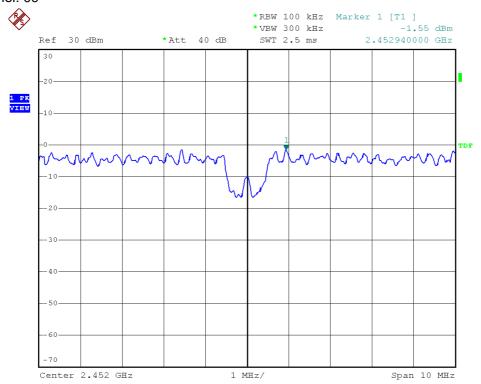
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Modulation Standard: 802.11n HT40 (270Mbps), ANT L Channel: 06



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

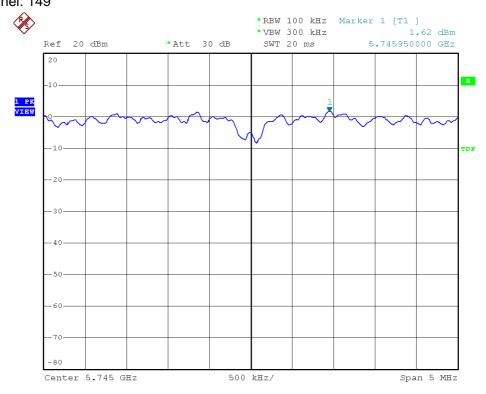


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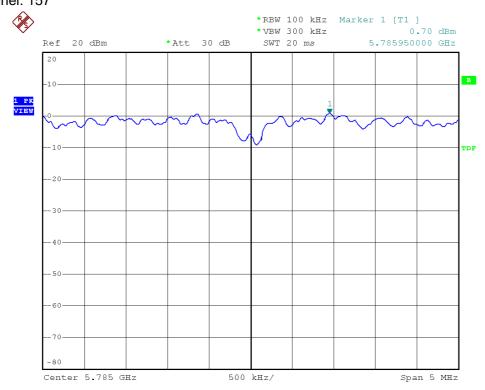
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Modulation Standard: 802.11a (54Mbps), ANT L Channel: 149



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

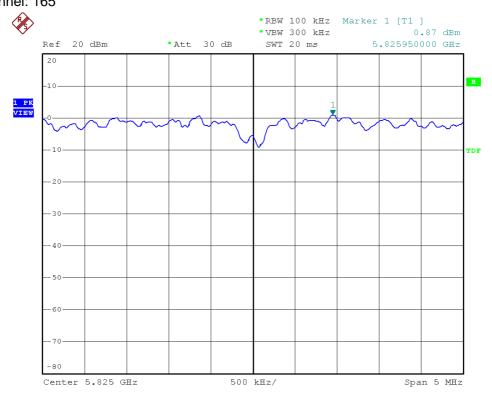


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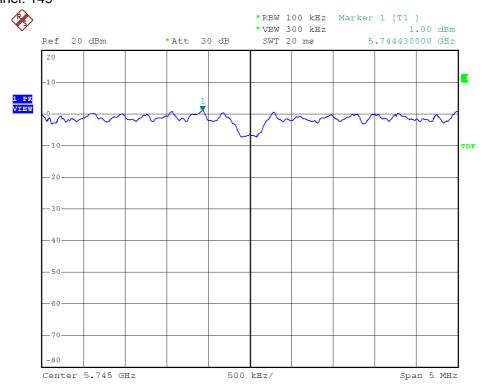
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Modulation Standard: 802.11a (54Mbps), ANT L Channel: 165



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

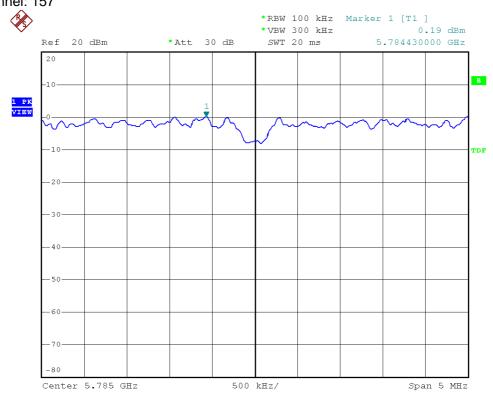


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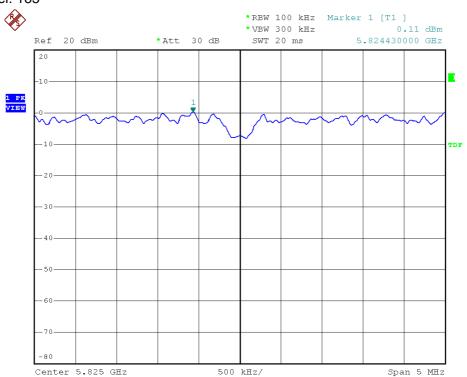
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Modulation Standard: 802.11an HT20 (130Mbps), ANT L Channel: 157



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

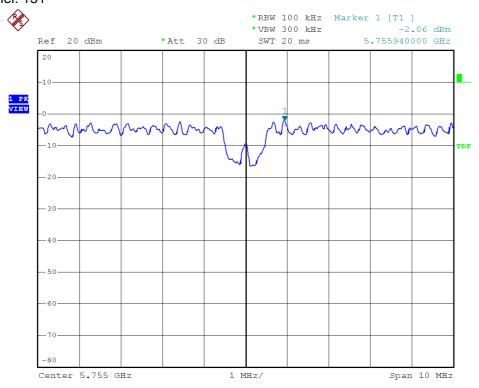


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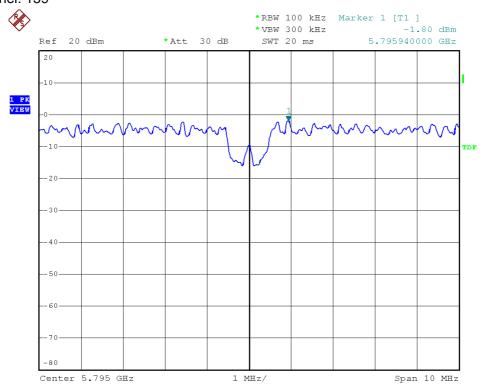
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Modulation Standard: 802.11an HT40 (270Mbps), ANT L Channel: 151



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



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9. Band Edges Measurement

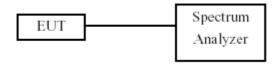
9.1 Test Limit

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

9.2 Test Procedure

- a. The transmitter output was connected to the spectrum analyzer via a low lose cable.
- b. Set RBW of spectrum analyzer to 100 KHz and VBW of spectrum analyzer to 300 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- c. 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

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9.5 Test Result and Data

Test Date: Jun. 01, 2012 Temperature: 25° C Atmospheric pressure: 1020 hPa Humidity: 65°

Modulation Standard	Channel	Frequency (MHz)	maximum value in frequency (MHz)		maximum value (dBm)	
			ANT R	ANT L	ANT R	ANT L
802.11b (11Mbps)	01	2412	2399.80	2399.20	-42.61	-39.99
	11	2462	2498.90	2485.50	-46.47	-46.57
802.11g (54Mbps)	01	2412	2400.00	2399.60	-34.41	-30.21
	11	2462	2483.70	2483.90	-40.67	-41.23
802.11n HT20 (130Mbps)	01	2412	2399.80	2400.00	-36.16	-31.87
	11	2462	2483.50	2484.50	-40.79	-40.33
802.11n HT40 (270Mbps)	03	2422	2399.60	2399.80	-28.81	-36.55
	09	2452	2483.70	2485.50	-37.57	-34.58

Test Date: Jun. 01, 2012 Temperature: 25° C Atmospheric pressure: 1020 hPa Humidity: 65%

Modulation Standard	Channel	Frequency (MHz)	maximum value in frequency (MHz)		maximum value (dBm)	
			ANT R	ANT L	ANT R	ANT L
802.11a (54Mbps)	149	5745	5724.80	5725.00	-37.57	-29.05
	165	5825	5850.00	5850.40	-44.18	-43.66
802.11an HT20 (130Mbps)	149	5745	5725.00	5725.00	-37.91	-30.80
	165	5825	5850.80	5850.00	-43.67	-42.48
802.11an HT40 (270Mbps)	151	5755	5722.00	5722.80	-35.58	-28.69
	159	5795	5850.40	5850.00	-48.24	-49.86

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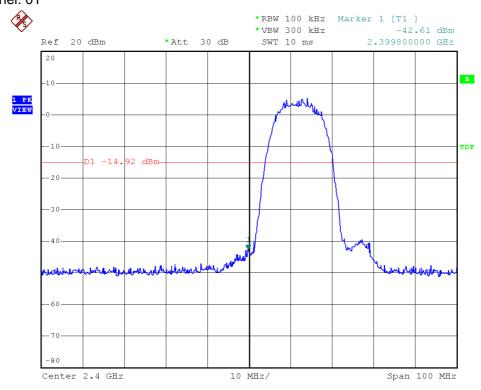
 Issued date
 :
 Jul. 09, 2012

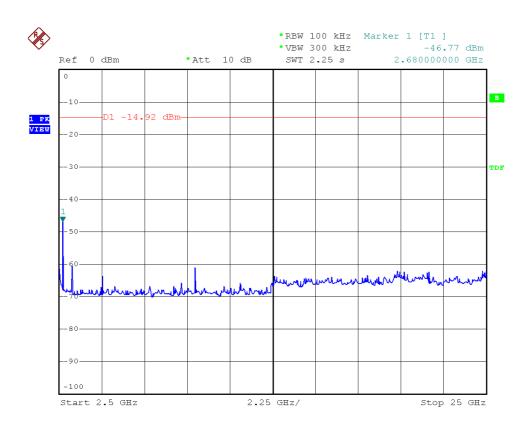
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Modulation Standard: 802.11b (11Mbps), ANT R Channel: 01



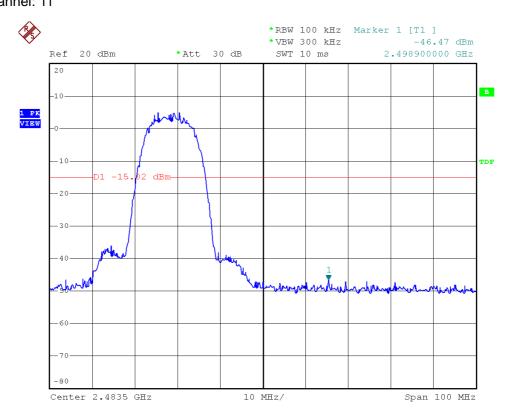


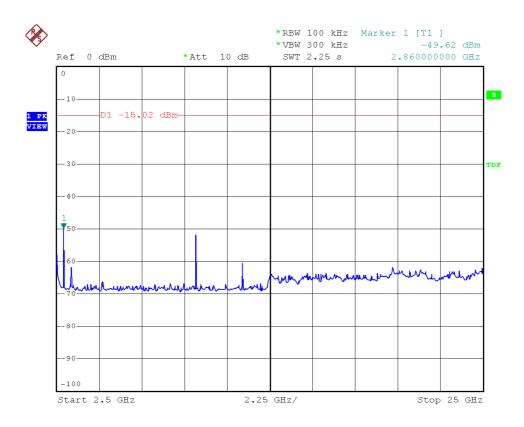
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Modulation Standard: 802.11b (11Mbps), ANT R Channel: 11



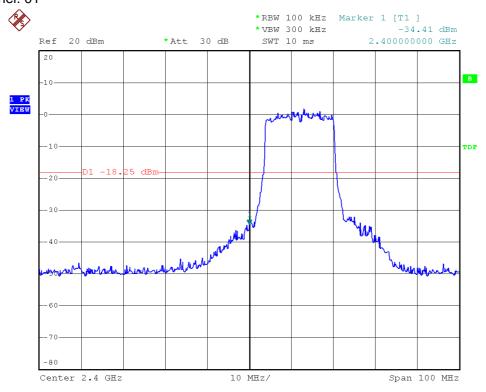


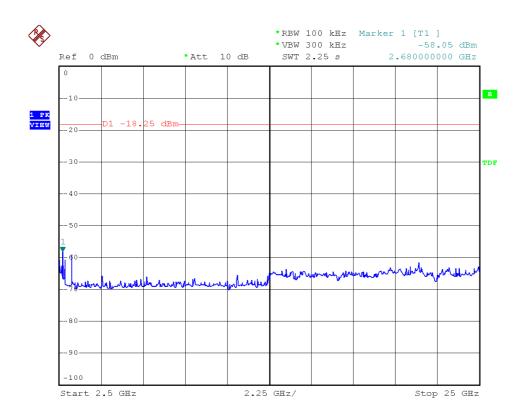
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Modulation Standard: 802.11g (54Mbps), ANT R Channel: 01



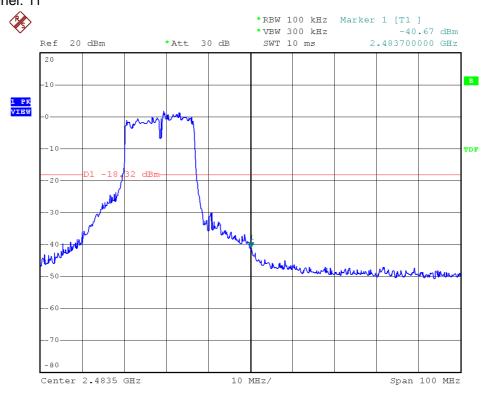


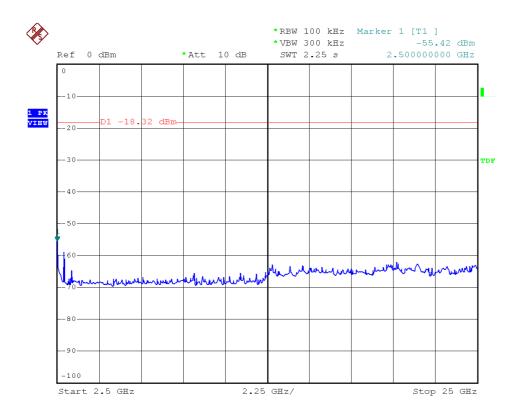
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Modulation Standard: 802.11g (54Mbps), ANT R Channel: 11



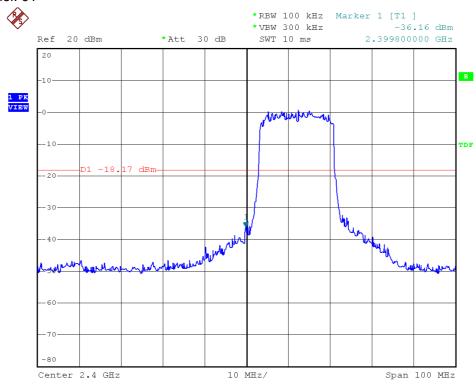


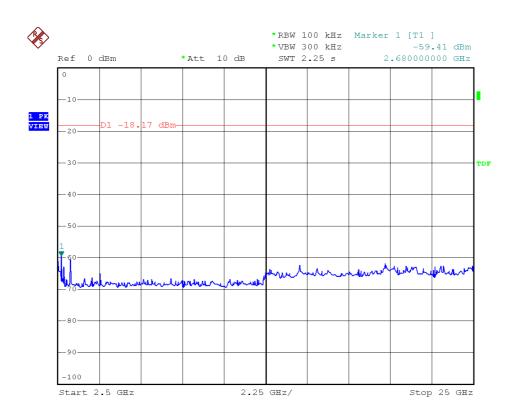
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Modulation Standard: 802.11n HT20 (130Mbps), ANT R Channel: 01



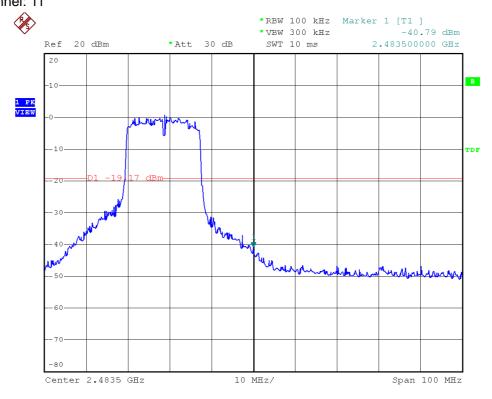


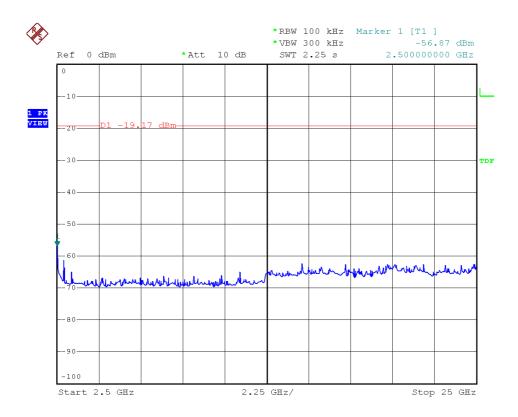
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Modulation Standard: 802.11n HT20 (130Mbps), ANT R Channel: 11



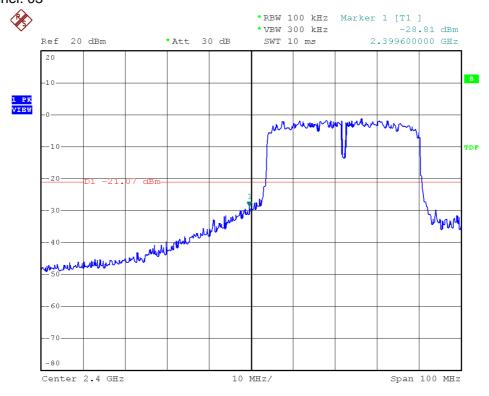


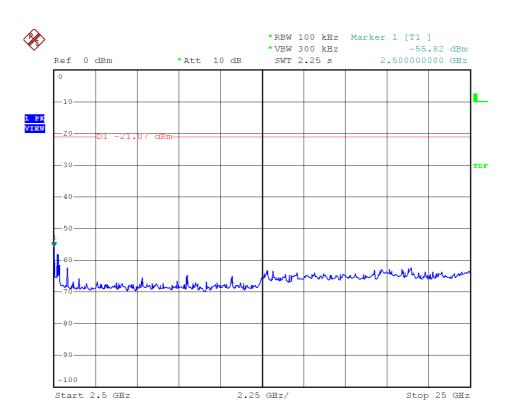
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Modulation Standard: 802.11n HT40 (270Mbps), ANT R Channel: 03



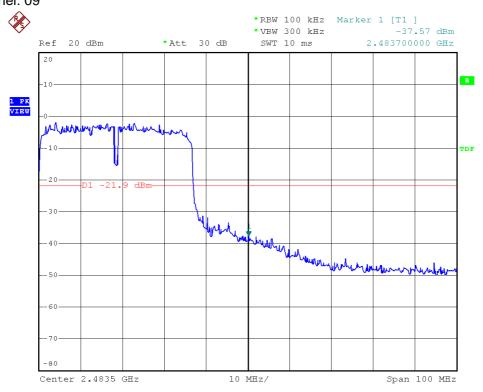


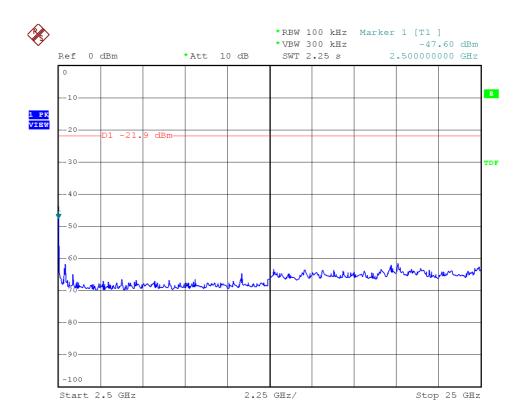
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Modulation Standard: 802.11n HT40 (270Mbps), ANT R Channel: 09



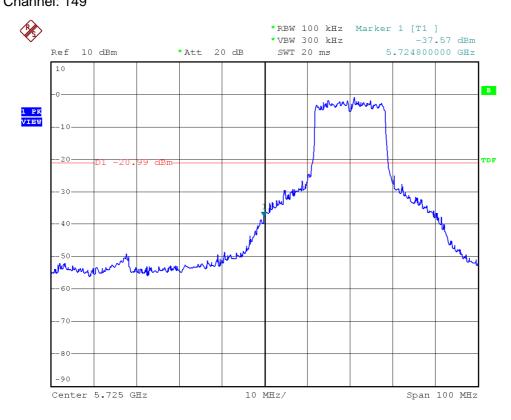


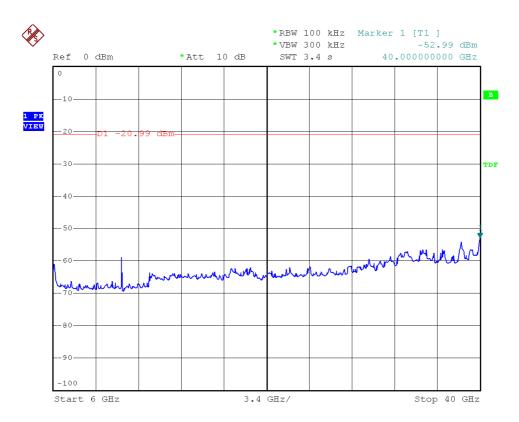
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Modulation Standard: 802.11a (54Mbps), ANT R Channel: 149



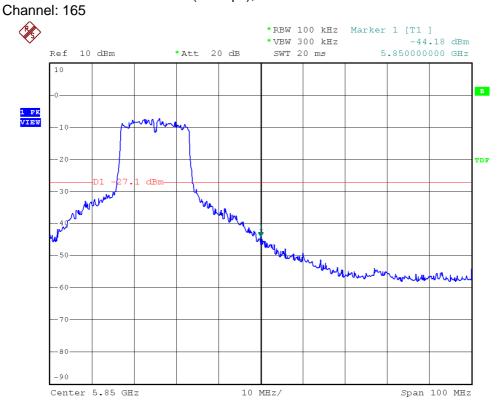


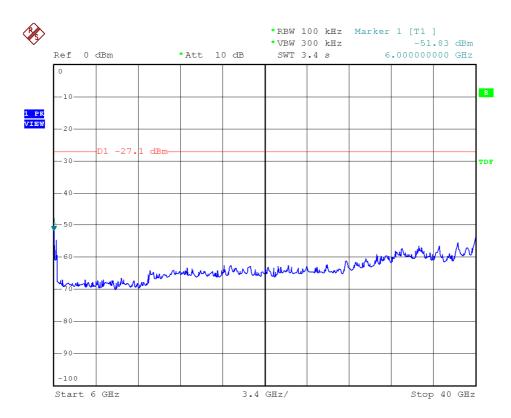
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Modulation Standard: 802.11a (54Mbps), ANT R



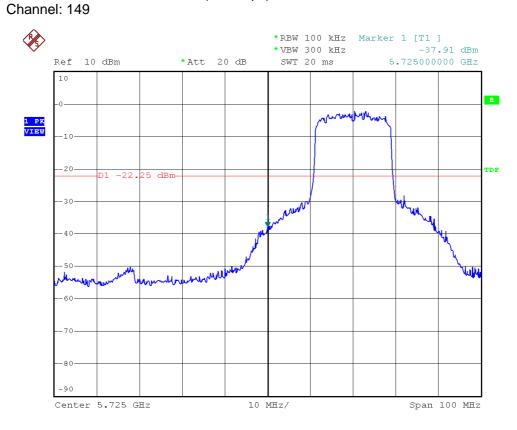


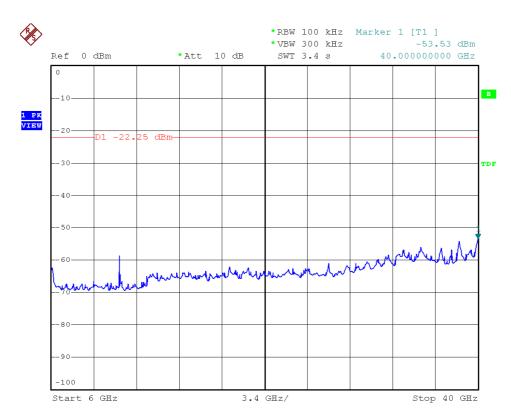
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Modulation Standard: 802.11an (130Mbps), ANT R



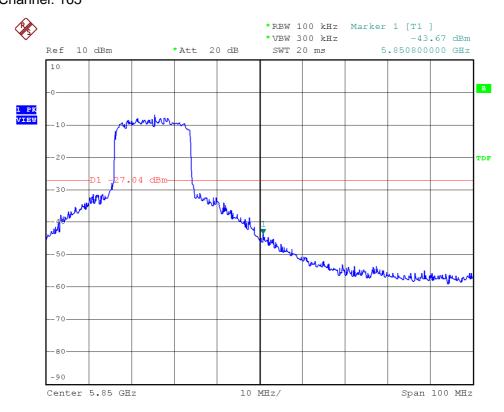


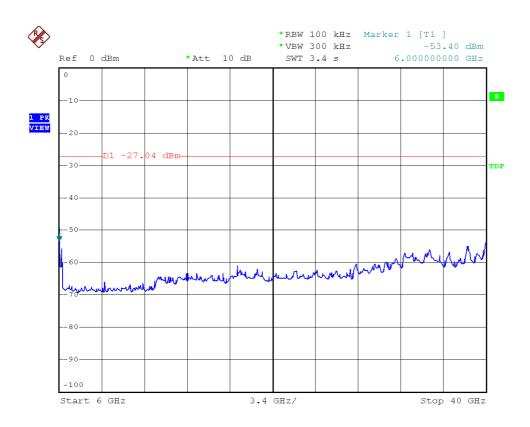
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Modulation Standard: 802.11an HT20 (130Mbps), ANT R Channel: 165



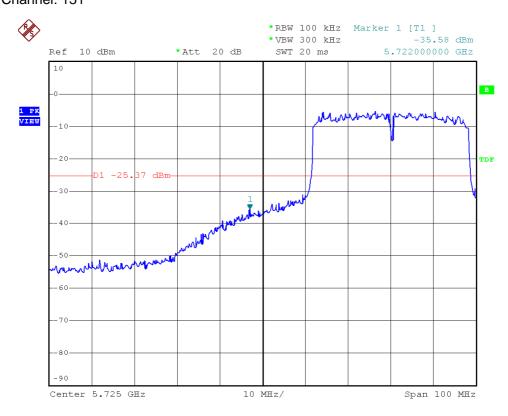


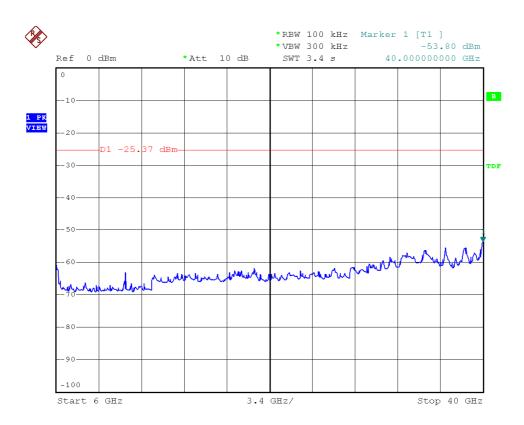
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Modulation Standard: 802.11an HT40 (270Mbps), ANT R Channel: 151



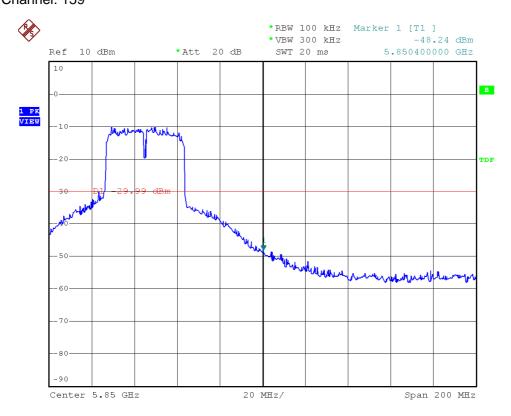


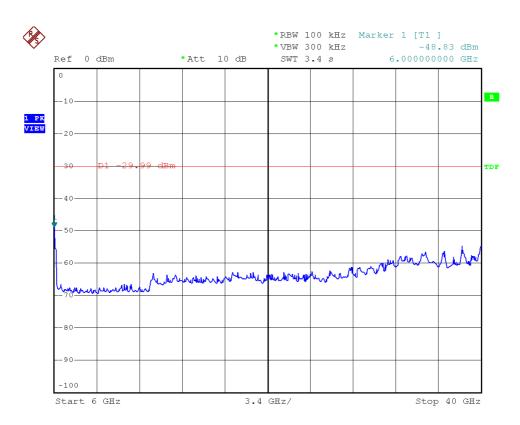
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Modulation Standard: 802.11an HT40 (270Mbps), ANT R Channel: 159



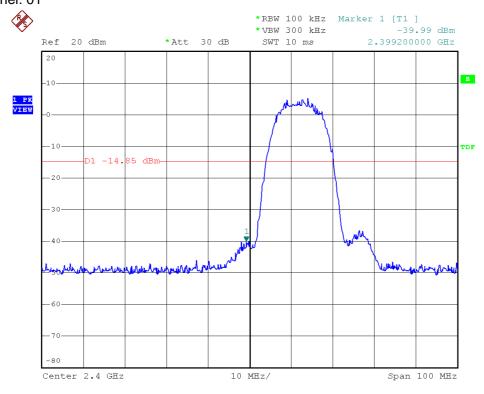


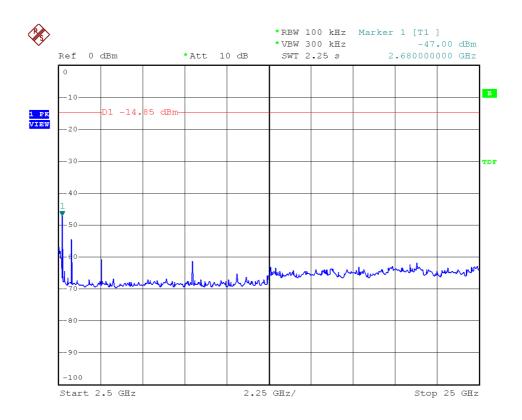
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FCC ID : VYTLP-7767



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



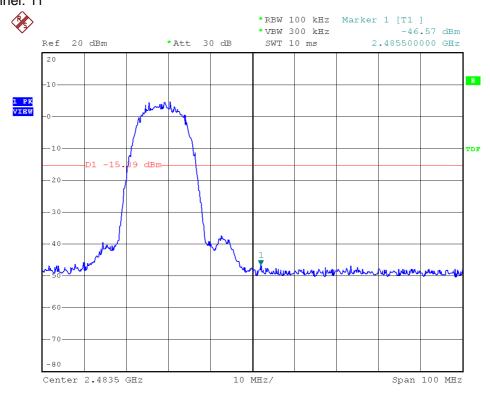


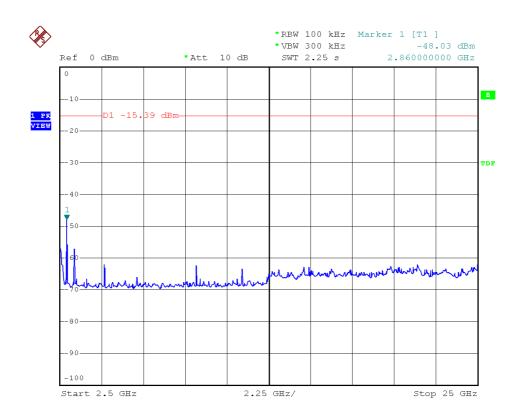
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Modulation Standard: 802.11b (11Mbps), ANT L Channel: 11



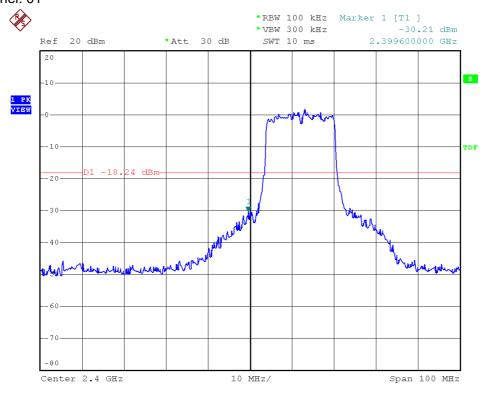


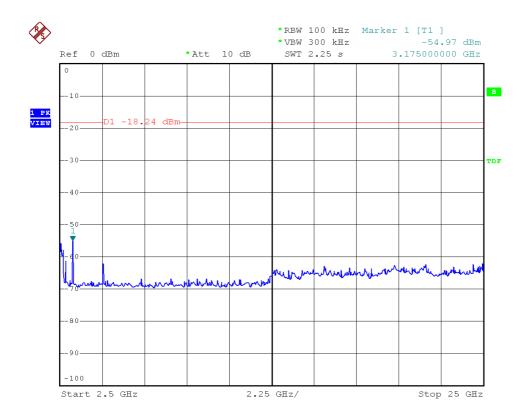
Tel:886-2-2655-8100 Fax:886-2-2655-8200

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



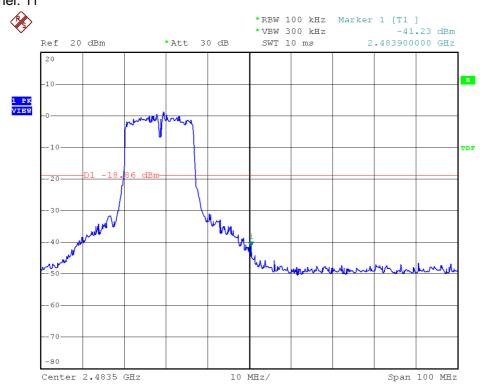


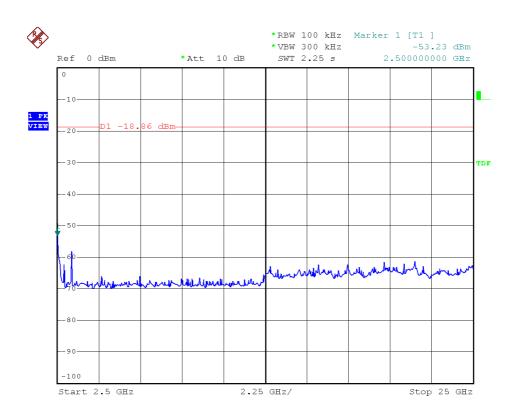
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Modulation Standard: 802.11g (54Mbps), ANT L Channel: 11



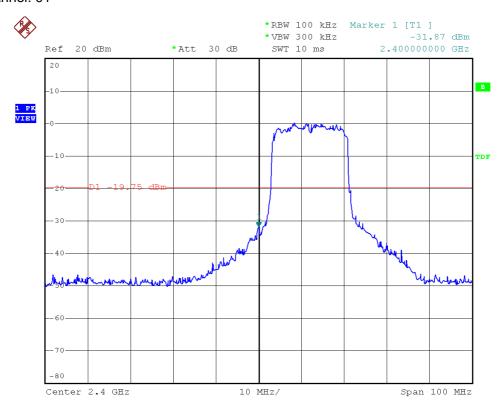


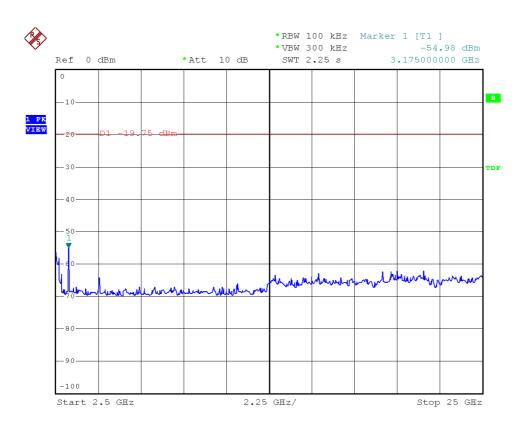
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Modulation Standard: 802.11n HT20 (130Mbps), ANT L Channel: 01





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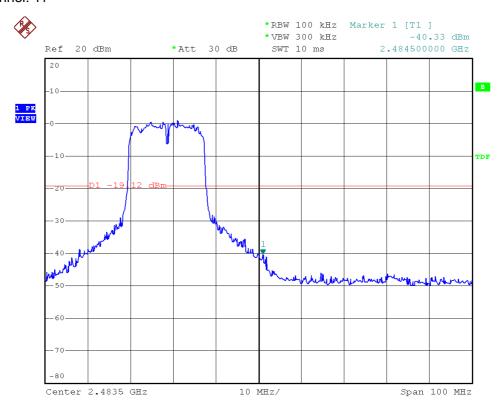
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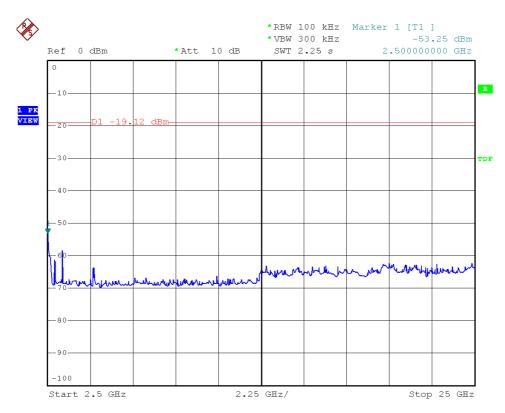
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Modulation Standard: 802.11n HT20 (130Mbps), ANT L Channel: 11



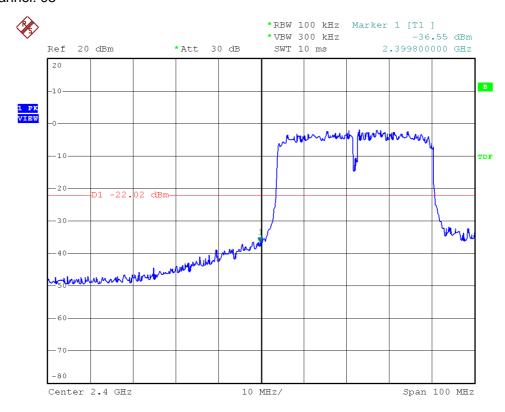


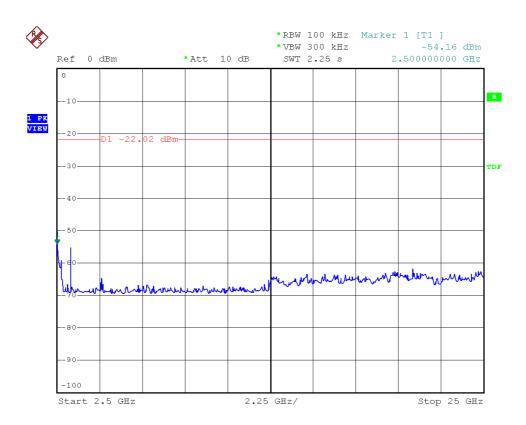
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Modulation Standard: 802.11n HT40 (270Mbps), ANT L Channel: 03



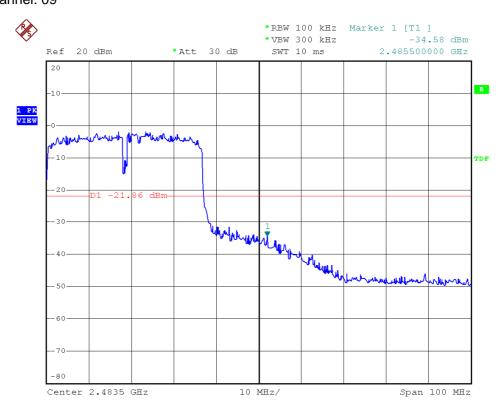


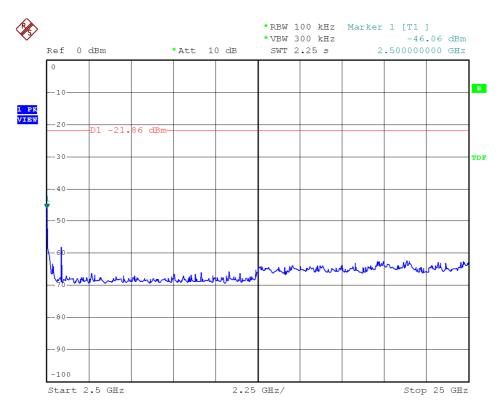
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Modulation Standard: 802.11n HT40 (270Mbps), ANT L Channel: 09





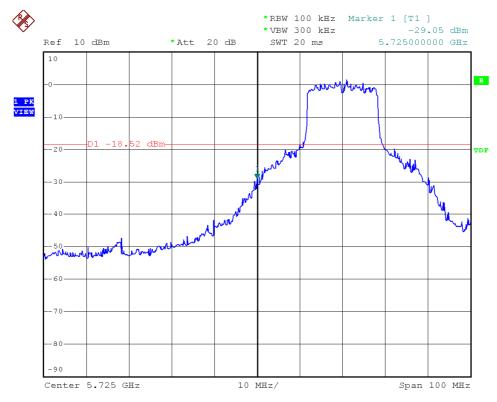
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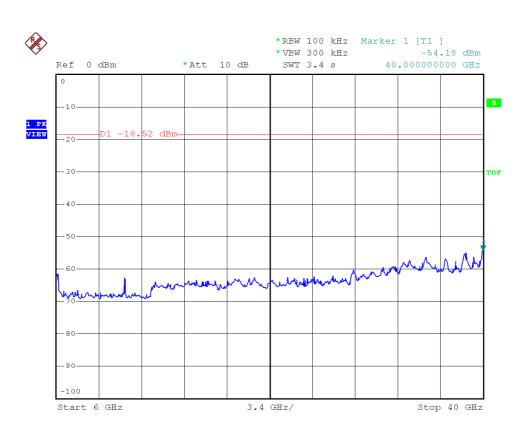
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Modulation Standard: 802.11a (54Mbps), ANT L







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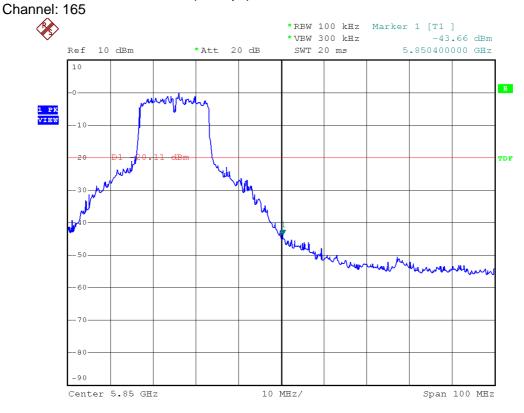
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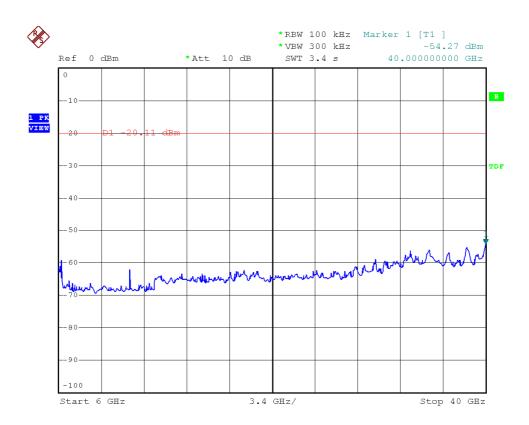
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Modulation Standard: 802.11a (54Mbps), ANT L



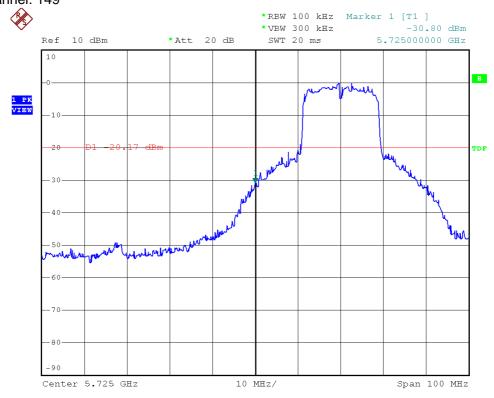


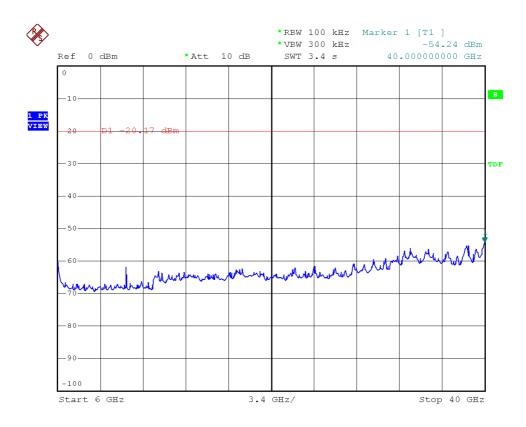
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Modulation Standard: 802.11an HT20 (130Mbps), ANT L Channel: 149



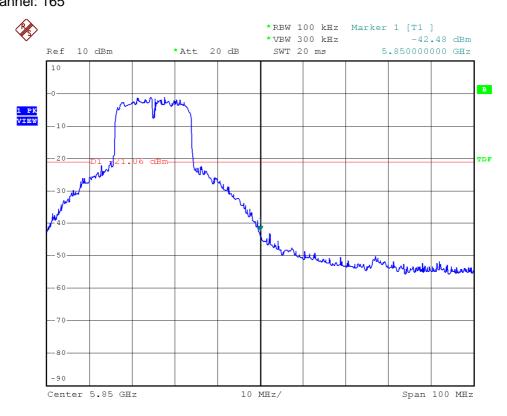


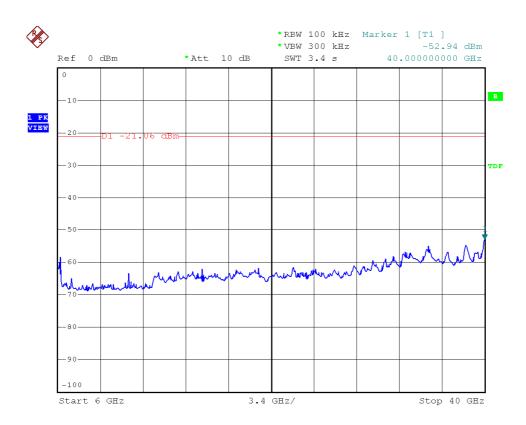
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Modulation Standard: 802.11an HT20 (130Mbps), ANT L Channel: 165



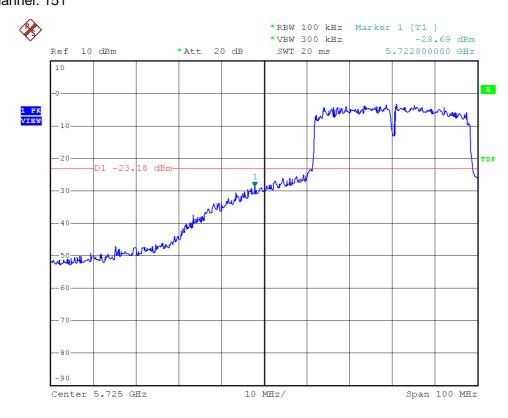


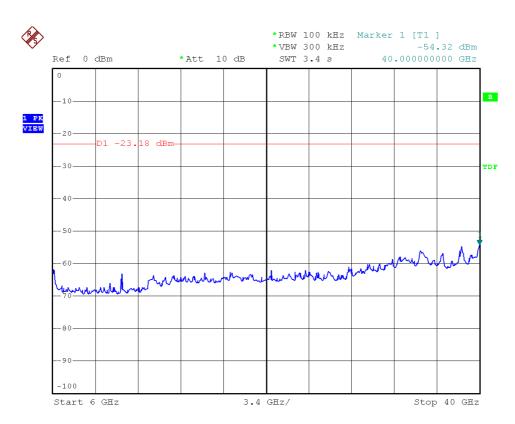
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Modulation Standard: 802.11an HT40 (270Mbps), ANT L Channel: 151



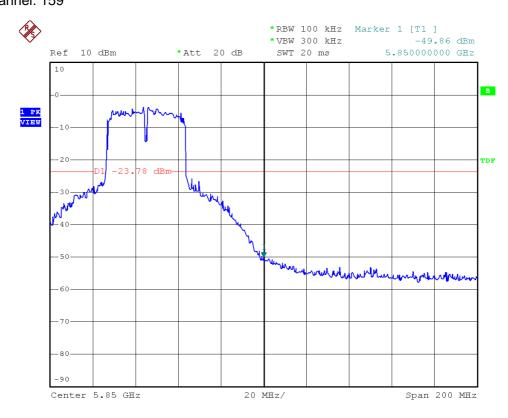


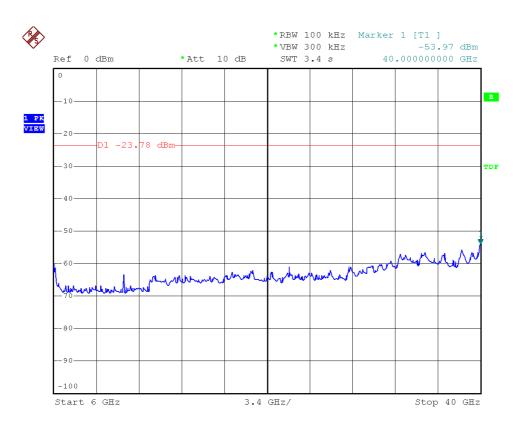
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Modulation Standard: 802.11an HT40 (270Mbps), ANT L Channel: 159





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9.6 Restrict Band Emission Measurement Data

Test Mode 1:

Test Date: Jun. 28, 2012 Temperature: 25 $^{\circ}$ C Atmospheric pressure: 1020 hPa Humidity: 65 $^{\circ}$

Modulation Standard: IEEE 802.11b (11Mbps)

Channel 1 Fundamental Frequency: 2412 MHz										
Frequency	Ant-Pol Reading		Corrected	Result	Remark	`	BuV/m)	Margin	Table	Ant High
(MHz)	H/V	(dBuV)	Factor (dB)	(dBuV/m)	Remark	Peak	Ave	(dB)	Deg.	(m)
2319.69	Н	50.97	1.90	52.87	Peak	74	54	-21.13	112	1.00
	Н				Ave	74	54			
2389.05	V	56.85	2.27	59.12	Peak	74	54	-14.08	233	1.00
2389.81	V	45.05	2.25	47.30	Ave	74	54	-6.70	233	1.00
Channel 1	1					Fu	ndamen	tal Frequ	ency: 24	462 MHz
Frequency	Ant-Pol	Meter Reading	Corrected	Result	Remark	Limit (d	BuV/m)	Margin	Table	Ant High
(MHz)	H/V	(dBuV)	Factor (dB)	(dBuV/m)	Remark	Peak	Ave	(dB)	Deg.	(m)
2493.73	Н	50.84	0.15	50.99	Peak	74	54	-23.01	117	1.00
	Н				Ave	74	54			
2485.10	V	57.68	-2.43	55.25	Peak	74	54	-18.75	218	1.00
2483.56	V	45.10	-2.35	42.75	Ave	74	54	-11.25	218	1.00

Modulation Standard: IEEE 802.11g (54Mbps)

Channel 1	Channel 1 Fundamental Frequency: 2412 MHz									
''' ''		Ant-Pol Reading		Result	Remark	,	BuV/m)	Margin	Table	Ant High
(MHz)	H/V	(dBuV)	Factor (dB)	(dBuV/m)	Remark	Peak	Ave	(dB)	Deg.	(m)
2358.45	Н	51.62	1.75	53.37	Peak	74	54	-20.63	140	1.00
	Н				Ave	74	54			
2389.86	V	60.87	2.25	63.12	Peak	74	54	-10.88	144	1.00
2389.81	V	46.32	2.25	48.57	Ave	74	54	-5.43	144	1.00
Channel 1	1					Fu	ndamen	tal Frequ	ency: 24	162 MHz
Frequency	Ant-Pol	Meter	Corrected	Result	Remark	,	BuV/m)	Margin	Table	Ant High
(MHz)	H/V	Reading (dBuV)	Factor (dB)	(dBuV/m)	Remark	Peak	Ave	(dB)	Deg.	(m)
2483.73	Н	52.16	0.29	52.45	Peak	74	54	-21.55	102	1.00
	Н				Ave	74	54			
2483.66	V	58.68	-2.36	56.32	Peak	74	54	-17.68	135	1.00
2483.56	V	45.48	-2.35	43.13	Ave	74	54	-10.87	135	1.00

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Modulation Standard: IEEE 802.11n HT20 (130Mbps)

Channel 1	Channel 1 Fundamental Frequency: 2412 MHz											
Frequency Ant-Pol		Meter Reading	Corrected	Result	Remark	Limit (d	BuV/m)	.v.a.g	Table	Ant High		
(MHz)	H/V	(dBuV)	Factor (dB)	(dBuV/m)		Peak	Ave	(dB)	Deg.	(m)		
2360.79	Н	50.26	1.73	51.99	Peak	74	54	-22.01	139	1.00		
	Ι	-			Ave	74	54	ł				
2389.86	V	59.48	2.25	61.73	Peak	74	54	-12.27	143	1.00		
2359.98	V	46.22	2.74	48.98	Ave	74	54	-5.04	143	1.00		
Channel 1	1					Fu	ndamen	tal Frequ	ency: 2	462 MHz		
Frequency	Ant-Pol	Meter Correcte		Result	Domork	`	BuV/m)	Margin	Table	Ant High		
(MHz)	H/V	Reading (dBuV)	Factor (dB)	(dBuV/m)	Remark	Peak	Ave	(dB)	Deg.	(m)		
2483.58	Η	51.33	0.30	51.63	Peak	74	54	-22.37	119	1.00		
	Н				Ave	74	54	-				
2483.66	V	60.41	-2.36	58.05	Peak	74	54	-15.95	136	1.00		
2483.56	V	46.65	-2.35	44.03	Ave	74	54	-9.70	136	1.00		

Modulation Standard: IEEE 802.11n HT40 (270Mbps)

Channel 3	Channel 3 Fundamental Frequency: 2422 MHz										
Frequency	Ant-Pol	Meter Reading	Corrected	Result	Remark		BuV/m)	Margin	Table	Ant High	
(MHz)	H/V	(dBuV)	Factor (dB)	(dBuV/m)		Peak	Ave	(dB)	Deg.	(m)	
2389.56	Н	51.29	1.62	52.91	Peak	74	54	-21.09	113	1.00	
	Н				Ave	74	54				
2389.76	V	63.31	2.25	65.56	Peak	74	54	-8.44	142	1.00	
2389.81	V	47.64	2.25	49.89	Ave	74	54	-4.11	142	1.00	
Channel 9	9					Fur	ndament	al Freque	ency: 24	52 MHz	
Frequency	Ant-Pol	Meter	Corrected	Result	Remark	,	BuV/m)	Margin	Table	Ant High	
(MHz)	H/V	Reading (dBuV)	Factor (dB)	(dBuV/m)	Kemark	Peak	Ave	(dB)	Deg.	(m)	
2483.96	Н	54.10	0.29	54.39	Peak	74	54	-19.61	101	1.00	
2483.65	Н	41.37	0.30	41.67	Ave	74	54	-12.33	101	1.00	
2483.73	V	65.62	-2.36	63.26	Peak	74	54	-10.74	133	1.00	
2483.56	V	51.80	-2.35	49.45	Ave	74	54	-4.55	133	1.00	

Notes:

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

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Test Mode 2:

Modulation Standard: IEEE 802.11b (11Mbps)

Channel 1	Channel 1 Fundamental Frequency: 2412 MHz									
Frequency	Ant-Pol	Ant-Pol Reading		Result	Remark	,	BuV/m)	Margin	Table	Ant High
(MHz)	H/V	(dBuV)	Factor (dB)	(dBuV/m)	Koman	Peak	Ave	(dB)	Deg.	(m)
2355.39	Н	50.40	1.76	52.16	Peak	74	54	-21.84	190	1.04
	Н				Ave	74	54			
2314.28	V	58.12	3.50	61.62	Peak	74	54	-12.38	212	1.00
2389.82	V	47.39	2.25	49.64	Ave	74	54	-4.36	212	1.00
Channel 1	1					Fu	ndamen	tal Frequ	ency: 24	162 MHz
Frequency	Ant-Pol	Meter	Corrected	Result	Remark	`	BuV/m)	Margin	Table	Ant High
(MHz)	H/V	Reading (dBuV)	Factor (dB)	(dBuV/m)	Remark	Peak	Ave	(dB)	Deg.	(m)
2496.28	Н	50.83	0.11	50.94	Peak	74	54	-23.06	160	1.04
	Н				Ave	74	54			
2500.00	V	63.23	-3.22	60.01	Peak	74	54	-13.99	224	1.00
2500.00	V	53.88	-3.22	50.66	Ave	74	54	-3.34	224	1.00

Modulation Standard: IEEE 802.11g (54Mbps)

Channel 1						Fu	ndamen	tal Frequ	ency: 24	412 MHz
Frequency	Ant-Pol	Meter Reading	Corrected	Result	Remark	`	BuV/m)	Margin	Table	Ant High
(MHz)	H/V	(dBuV)	Factor (dB)	(dBuV/m)	Nemark	Peak	Ave	(dB)	Deg.	(m)
2389.56	Н	54.30	1.62	55.92	Peak	74	54	-18.08	191	1.04
2389.82	Н	40.50	1.62	42.12	Ave	74	54	-11.88	191	1.04
2375.28	V	59.10	2.49	61.59	Peak	74	54	-12.41	220	1.00
2389.82	V	47.24	2.25	49.49	Ave	74	54	-4.51	220	1.00
Channel 1	1					Fu	ndamen	tal Frequ	ency: 24	462 MHz
Frequency	Ant-Pol	Meter Reading	Corrected	Result	Remark	`	BuV/m)	Margin	Table	Ant High
(MHz)	H/V	(dBuV)	Factor (dB)	(dBuV/m)	Nemaik	Peak	Ave	(dB)	Deg.	(m)
2483.55	Н	55.65	0.30	55.95	Peak	74	54	-18.05	216	1.04
2483.57	Н	41.00	0.30	41.30	Ave	74	54	-12.07	216	1.04
2499.81	V	63.82	-3.21	60.61	Peak	74	54	-13.39	229	1.00
2500.00	V	52.62	-3.22	49.40	Ave	74	54	-4.60	229	1.00

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Modulation Standard: IEEE 802.11n HT20 (130Mbps)

			-							
Channel 1						Fu	ndamen	tal Frequ	ency: 24	412 MHz
Frequency	Ant-Pol	Meter Reading	Corrected	Result	Remark		BuV/m)	a. g	Table	Ant High
(MHz)	H/V	(dBuV)	Factor (dB)	(dBuV/m)		Peak	Ave	(dB)	Deg.	(m)
2389.36	Ι	56.30	1.62	57.92	Peak	74	54	-16.08	176	1.04
2389.82	Ι	41.27	1.62	42.89	Ave	74	54	-11.11	176	1.04
2338.56	V	59.43	3.10	62.53	Peak	74	54	-11.47	211	1.00
2389.82	V	47.28	2.25	49.53	Ave	74	54	-4.47	211	1.00
Channel 1	1					Fu	ndamen	tal Frequ	ency: 24	462 MHz
Frequency	Ant-Pol	Meter	Corrected	Result	Domark	`	BuV/m)	Margin	Table	Ant High
(MHz)	H/V	Reading (dBuV)	Factor (dB)	(dBuV/m)	Remark	Peak	Ave	(dB)	Deg.	(m)
2483.85	Ι	56.50	0.29	56.79	Peak	74	54	-17.21	161	1.04
2483.57	Н	41.62	0.30	41.92	Ave	74	54	-12.08	161	1.04
2499.81	V	61.62	-3.21	58.41	Peak	74	54	-15.59	211	1.00
2500.00	V	50.09	-3.22	46.87	Ave	74	54	-7.13	211	1.00

Modulation Standard: IEEE 802.11n HT40 (270Mbps)

Channel 3						Fu	ndamen	tal Frequ	ency: 24	422 MHz
Frequency	Ant-Pol	Meter Reading	Corrected	Result	Remark	Limit (dBuV/m)		Margin	Table	Ant High
(MHz)	H/V	(dBuV)	Factor (dB)	(dBuV/m)		Peak	Ave	(dB)	Deg.	(m)
2389.56	Н	60.64	1.62	62.26	Peak	74	54	-11.74	193	1.04
2389.82	Η	45.66	1.62	47.28	Ave	74	54	-6.72	193	1.04
2321.73	V	58.54	3.39	61.93	Peak	74	54	-12.07	221	1.00
2389.82	V	47.35	2.25	49.60	Ave	74	54	-4.40	221	1.00
Channel 9	9					Fur	ndament	al Freque	ency: 24	52 MHz
Frequency	Ant-Pol	Meter Reading	Corrected	Result	Remark	,	BuV/m)	Margin	Table	Ant High
(MHz)	H/V	(dBuV)	Factor (dB)	(dBuV/m)	Kemark	Peak	Ave	(dB)	Deg.	(m)
2483.85	Η	59.97	0.29	60.26	Peak	74	54	-13.74	160	1.04
2483.57	Η	47.08	0.30	47.38	Ave	74	54	-6.62	160	1.04
2499.81	V	63.72	-3.21	60.51	Peak	74	54	-13.49	216	1.00
2500.00	V	48.82	-3.22	45.60	Ave	74	54	-8.40	216	1.00

Notes:

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

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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.

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