

Operation Mode	Channel	Data rate	Channel Frequency (Mz)	Result (dB m)	Limit (dB m)
		6		12.58	24
		9		12.43	24
		12		12.44	24
		18	5 260	12.35	24
		24	5200	12.25	24
		36		12.10	24
		48		12.00	24
		54		11.95	24
	Lower Band	6	5 300	12.46	24
		9		12.33	24
		12		12.32	24
DFS		18		12.15	24
11a		24		12.10	24
		36		12.00	24
		48		11.93	24
		54		11.85	24
		6		12.54	24
		9		12.43	24
		12		12.40	24
		18	5 320	12.35	24
		24	0.020	12.25	24
		36		12.11	24
		48		12.03	24
		54		11.85	24

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Operation Mode	Channel	Data rate	Channel Frequency (毗)	Result (dB m)	Limit (dB m)
		6		11.95	24
		9		11.92	24
		12		11.83	24
		18	5 500	11.75	24
		24	5 300	11.63	24
		36		11.52	24
		48		11.43	24
		54		11.33	24
	Upper Band	6	- 5 580	12.06	24
		9		12.03	24
		12		11.93	24
DFS		18		11.98	24
11a		24		11.95	24
		36		11.85	24
		48		11.73	24
		54		11.65	24
		6		12.27	24
		9		12.11	24
		12		12.10	24
		18	5 700	12.03	24
		24	5700	11.95	24
		36		11.93	24
		48		11.85	24
		54		11.74	24

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-11n_HT20

Operation Mode	Channel	Data rate	Channel Frequency (쌘)	Result (dB m)	Limit (dB m)
		MCS0		12.88	17
		MCS1		12.77	17
		MCS2		12.65	17
	Low	MCS3	5 180	12.55	17
	LOW	MCS4	5 100	12.43	17
		MCS5		12.20	17
		MCS6		12.15	17
		MCS7		12.10	17
		MCS0		12.79	17
	Middle	MCS1	5 220	12.66	17
		MCS2		12.52	17
Non DFS		MCS3		12.43	17
11n_HT20		MCS4		12.33	17
		MCS5		12.10	17
		MCS6		11.95	17
		MCS7		11.85	17
		MCS0		12.80	17
		MCS1		12.74	17
		MCS2		12.46	17
	High	MCS3	5 240	12.33	17
	підп	MCS4	5 240	12.10	17
		MCS5		11.95	17
		MCS6		11.85	17
		MCS7		11.74	17

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Operation Mode	Channel	Data rate	Channel Frequency (ሙ)	Result (dB m)	Limit (dB m)
		MCS0		12.60	24
		MCS1		12.52	24
		MCS2		12.43	24
		MCS3	5 260	12.33	24
		MCS4	5 200	12.11	24
		MCS5		12.03	24
		MCS6		11.95	24
		MCS7		11.83	24
	Lower Band	MCS0		12.46	24
		MCS1	5 300	12.33	24
		MCS2		12.31	24
DFS		MCS3		12.15	24
11n_HT20		MCS4		12.10	24
		MCS5		12.03	24
		MCS6		11.95	24
		MCS7		11.85	24
		MCS0		12.54	24
		MCS1		12.43	24
		MCS2		12.33	24
		MCS3	5 320	12.25	24
		MCS4	5 320	12.10	24
		MCS5		11.96	24
		MCS6		11.85	24
		MCS7		11.74	24

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Operation Mode	Channel	Data rate	Channel Frequency (ሙ)	Result (dB m)	Limit (dB m)
		MCS0		11.89	24
		MCS1		11.74	24
		MCS2		11.61	24
		MCS3	5 500	11.55	24
		MCS4	5 300	11.40	24
		MCS5		11.32	24
		MCS6		11.22	24
		MCS7		11.03	24
	Upper Band	MCS0		11.88	24
		MCS1	5 580	11.77	24
		MCS2		11.65	24
DFS		MCS3		11.43	24
11n_HT20		MCS4		11.25	24
		MCS5		11.11	24
		MCS6		11.10	24
		MCS7		10.89	24
		MCS0		12.07	24
		MCS1		12.03	24
		MCS2		11.93	24
		MCS3	5 700	11.85	24
		MCS4	5700	11.74	24
		MCS5		11.63	24
		MCS6		11.55	24
		MCS7		11.40	24

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-11n_HT40

Operation Mode	Channel	Data rate	Channel Frequency (쌘)	Result (dB m)	Limit (dB m)
		MCS0		11.50	17
		MCS1		11.38	17
		MCS2		11.25	17
	Low	MCS3	5 190	11.20	17
	Low	MCS4		11.03	17
		MCS5		10.95	17
		MCS6		10.88	17
Non DFS		MCS7		10.74	17
11n_HT40		MCS0		11.64	17
		MCS1		11.55	17
		MCS2		11.43	17
	High	MCS3	5 230	11.35	17
	riigit	MCS4	5 200	11.22	17
		MCS5		11.10	17
		MCS6		10.93	17
		MCS7		10.88	17

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Operation Mode	Channel	Data rate	Channel Frequency (Mz)	Result (dB m)	Limit (dB m)
		MCS0		11.15	24
		MCS1		11.10	24
		MCS2		11.03	24
		MCS3	5 270	11.00	24
		MCS4	5210	10.93	24
	Lower Band	MCS5		10.83	24
		MCS6		10.80	24
DFS		MCS7		10.75	24
11n_HT40		MCS0		11.13	24
		MCS1		11.10	24
		MCS2		10.99	24
		MCS3	5 310	10.85	24
		MCS4	5510	10.74	24
		MCS5		10.63	24
		MCS6		10.55	24
		MCS7		10.41	24

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Operation Mode	Channel	Data rate	Channel Frequency (ሙ)	Result (dB m)	Limit (dB m)
		MCS0		10.86	24
		MCS1		10.77	24
		MCS2		10.63	24
		MCS3	5 510	10.42	24
		MCS4	5510	10.22	24
		MCS5		10.15	24
		MCS6		10.10	24
		MCS7		10.02	24
	Upper Band	MCS0	- 5 550	10.93	24
		MCS1		10.85	24
		MCS2		10.77	24
DFS		MCS3		10.60	24
11n_HT40		MCS4		10.45	24
		MCS5		10.33	24
		MCS6		10.21	24
		MCS7		10.22	24
		MCS0		11.41	24
		MCS1		11.33	24
		MCS2		11.25	24
		MCS3	5 670	11.10	24
		MCS4	0.010	10.93	24
		MCS5		10.88	24
		MCS6		10.74	24
		MCS7		10.65	24

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802.11n-HT40 (Non-DFS)





High Channel (5 230 Mtz)



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802.11-HT40 (DFS)





High Channel (5 310 ₩z)



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802.11-HT40 (DFS)





Middle Channel (5 550 Mtz)



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High Channel (5 670 Mtz)



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5. Peak power spectral density

5.1. Test setup



5.2. Limit

5.2.1. FCC 15.407

(a)(1)

For the band 5.15-5.25 \mathbb{G} band, the peak power spectral density shall not exceed 4 dB m in any 1 Mb band. If transmitting antennas of directional gain greater than 6 dB i are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dB i.

(a)(2)

For the band 5.25–5.35 GHz and 5.47–5.725 GHz bands, the peak power spectral density shall not exceed 11 dB m in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dB i are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dB i.

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Report Number : F690501/RF-RTL005730-1

5.3. Test procedure

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

1. This measurement settings are specified in clause b) of section C of KDB 789033.

2. Set span to encompass the entire emission bandwidth (EBW) of the signal.

3. Set RBW = 1 ₩z

4. Set VBW ≥ 3 Mb

5. Number of points in sweep \geq 2 Span / RBW. (This ensures that bin-to-bin spacing is \leq RBW/2, so that narrowband signals are not lost between frequency bins.)

6. Sweep time = auto.

7. Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.

8. if transmit duty cycle < 98 percent, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle \ge 98 percent, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".

9. Trace average at least 100 traces in power averaging (i.e., RMS) mode.

10. Use the peak search function on the spectrum analyzer to find the peak of the spectrum.

11. The result is the PPSD.

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Report Number : F690501/RF-RTL005730-1

5.4. Test result

Ambient temperature	:	(24	±2) ℃
Relative humidity	:	49	% R.H.

5.4.1. Non-DFS Band

Operation Mode	Channel	Data Rate (Mbps)	Channel Frequency (쌘)	Peak power spectral density (dB m)	Limit (dB m)
	Low	6	5 180	1.251	
11a	Middle	6	5 220	1.194	
	High	6	5 240	1.069	
	Low	MCS0	5 180	1.075	Л
11n_HT20	Middle	MCS0	5 220	0.806	4
	High	MCS0	5 240	0.725	
11n HT40	Low	MCS0	5 190	-1.672	
11n_H140	High	MCS0	5 230	-1.725	

5.4.2. DFS Band

Operation Mode	Channel	Data Rate (Mbps)	Channel Frequency (쌘)	Peak power spectral density (dB m)	Limit (dB m)	
		6	5 260	0.738		
	Lower Band	6	5 300	0.431		
110		6	5 320	0.312		
IId		6	5 500	-0.109		
	Upper Band	6	5 580	0.462		
		6	5 700	0.709		
44 11700	Lower Band	MCS0	5 260	0.662		
		MCS0	5 300	0.155		
		MCS0	5 320	-0.140	11	
1111_1120	Upper Band	MCS0	5 500	-0.467	1	
		MCS0	5 580	-0.116		
		MCS0	5 700	0.537		
	Lower Bond	MCS0	5 270	-2.274		
	Lower Dariu	MCS0	5 310	-2.657		
11n_HT40		MCS0	5 510	-2.669		
	Upper Band	MCS0	5 550	-2.746		
		MCS0	5 670	-1.919		

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802.11a (Non-DFS)



Middle Channel (5 220 Mtz)



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18-54, Salibon-dong, Gunpo-Si, Gyeonggi-do, Korea, 455-04



High Channel (5 240 Mz)



802.11a (DFS)



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10-54, Saliboli-dolig, Gulipo-Si, Gyeoliggi-do, Kolea, 455-04



Middle Channel (5 300 Mtz)



High Channel (5 320 Mt)



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802.11a (DFS)



Middle Channel (5 580 Mtz)



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High Channel (5 700 Mtz)



802.11n-HT20 (Non-DFS)



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Middle Channel (5 220 Mtz)



High Channel (5 240 Mt)



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802.11-HT20 (DFS)



Middle Channel (5 300 Mz)



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High Channel (5 320 Mtz)



802.11-HT20 (DFS)



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18-54, Saliboli-dolig, Gulipo-si, Gyeoliggi-do, Kolea, 455-04



Middle Channel (5 580 Mz)



High Channel (5 700 Mtz)



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802.11n-HT40 (Non-DFS)



High Channel (5 230 ₩z)



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802.11-HT40 (DFS)



High Channel (5 310 ₩z)



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io-or, banbon-dong, banpo-si, byeonggi-do, Norea, 400-04



802.11-HT40 (DFS)



Middle Channel (5 550 MHz)



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oratory) To-54, Sambon-dong, Gunpo-Si, Gyeonggi-do, Korea, 455-04



High Channel (5 670 Mtz)



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6. Peak excursion

6.1. Test setup



6.2. Limit

The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power (measured as specified above) shall not exceed 13 dB across any 1 Mb bandwidth or the emission bandwidth whichever is less.

6.3. Test procedure

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

- 1. This measurement settings are specified in section F of KDB 789033.
- 2. Set the spectrum analyzer span to view the entire emission bandwidth.
- 3. Find the maximum of the peak-max-hold spectrum.
- 4. Set RBW = 1 M₺.
- 5. Set VBW \geq 3 Mz.
- 6. Detector = Peak.
- 7. Trace mode = max-hold.
- 8. Allow the sweeps to continue until the trace stabilizes.
- 9. Use the peak search function to find the peak of the spectrum.
- 10. Compute the ratio of the maximum of the peak-max-hold spectrum to the PPSD.



Report Number : F690501/RF-RTL005730-1

6.4. Test result

Ambient temperature	:	(24	±2) ℃
Relative humidity	:	49	% R.H.

6.4.1. Non-DFS Band

Operation Mode	Channel	Data Rate (Mbps)	Channel Frequency (毗)	Peak excursion (dB)	Limit (dB)	
11a	Low	6	5 180	8.537		
	Middle	6	5 220	8.570		
	High	6	5 240	8.577		
11n_HT20	Low	MCS0	5 180	8.017	12	
	Middle	MCS0	5 220	8.812	15	
	High	MCS0	5 240	8.514		
11n_HT40	Low	MCS0	5 190	8.307		
	High	MCS0	5 230	8.234		

6.4.2. DFS Band

Operation Mode	Channel	Data Rate (Mbps)	Channel Frequency (Mb)	Peak excursion (dB)	Limit (dB)	
110	Lower Band	6	5 260	8.031		
		6	5 300	7.893		
		6	5 320	9.066		
i ia	Upper Band	6	5 500	7.606		
		6	5 580	7.982		
		6	5 700	8.456		
	Lower Band	MCS0	5 260	8.104	13	
		MCS0	5 300	7.746		
11n HT20		MCS0	5 320	8.115		
1111_11120	Upper Band	MCS0	5 500	9.132	_	
		MCS0	5 580	8.408		
		MCS0	5 700	8.742		
11n_HT40	Lower Band	MCS0	5 270	8.107	1	
		MCS0	5 310	8.733		
	Upper Band	MCS0	5 510	8.881		
		MCS0	5 550	8.265		
		MCS0	5 670	7.638		

Captured images

Please refer to the PPSD captured image as above. (106 page – 108 page)

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7. Transmitter AC Power Line Conducted Emission

7.1. Test Setup



7.2. Limit

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

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

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

* Decreases with the logarithm of the frequency.

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: F690501/RF-RTL005730-1

7.3. Test Procedures

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

AC line conducted emissions from the EUT were measured according to the dictates of ANSI C63.4-2003

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

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rt Number : F690501/RF-RTL005730-1

7.4. Test Results (Worst case configuration_ 11n_HT40 mode, MCS0, 5180 – 5240 Mb)

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

Ambient temperature	:	(24	± 2) ℃
Relative humidity	:	47	% R.H.

Frequency range	:	0.15 MHz - 30 M	Hz
Measured Bandwidth	:	9 kHz	

FREQ.	LEVEL(dB,#V)			LIMIT((dBµ V)	MARG	IN(dB)
(MHz)	Q-Peak	Average	LINE	Q-Peak	Average	Q-Peak	Average
0.17	40.51	31.51	н	64.96	54.96	24.45	23.45
0.26	40.83	32.43	н	61.43	51.43	20.60	19.00
0.35	43.77	33.67	Н	58.96	48.96	15.19	15.29
0.52	44.17	34.17	н	56.00	46.00	11.83	11.83
0.86	44.47	32.97	н	56.00	46.00	11.53	13.03
12.47	44.43	34.73	Н	60.00	50.00	15.57	15.27
0.18	36.80	20.30	N	64.72	54.72	27.92	34.42
0.35	39.15	27.55	N	58.96	48.96	19.81	21.41
0.52	38.65	27.45	N	56.00	46.00	17.35	18.55
0.86	40.15	27.15	N	56.00	46.00	15.85	18.85
4.30	33.16	25.76	N	56.00	46.00	22.84	20.24
12.37	38.43	29.43	N	60.00	50.00	21.57	20.57

Note;

- 1. Line (H): Hot, Line (N): Neutral
- 2. All modes of operation were investigated and the worst-case emissions are reported using 11n_HT40 MCS0
- 3. The limit for Class B device(s) from 150 km to 30 Mm are specified in Section of the Title 47 CFR.
- 4. Traces shown in plot mad using a peak detector
- 5. Deviations to the Specifications: None.

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er : F690501/RF-RTL005730-1

Plot of Conducted Power line

Test mode : (Hot)



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lumber : F690501/RF-RTL005730-1





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