



7.5. Conducted Band Edge and Out-of-Band Emissions

7.5.1. Test Limit

The limit for out-of-band spurious emissions at the band edge is 30dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.

7.5.2. Test Procedure Used

KDB 558074 D01v03r05 - Section 11.2 & Section 11.3

7.5.3. Test Settitng

1. Reference level measurement

- (a) Set instrument center frequency to DTS channel center frequency
- (b) Set the span to ≥ 1.5 times the DTS bandwidth
- (c) Set the RBW = 100 kHz
- (d) Set the VBW \geq 3 x RBW
- (e) Detector = peak
- (f) Sweep time = auto couple
- (g) Trace mode = max hold
- (h) Allow trace to fully stabilize

2. Emission level measurement

- (a) Set the center frequency and span to encompass frequency range to be measured
- (b) RBW = 100kHz
- (c) VBW = 300kHz
- (d) Detector = Peak
- (e) Trace mode = max hold
- (f) Sweep time = auto couple
- (g) The trace was allowed to stabilize

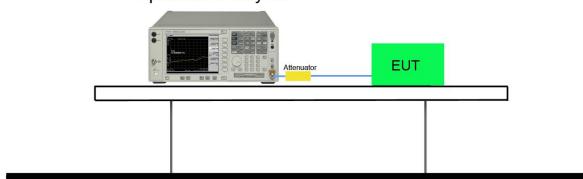
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7.5.4. Test Setup





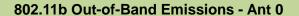


7.5.5. Test Result

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	Limit	Result			
Ant 1								
802.11b	1	01	2412	30dBc	Pass			
802.11b	1	06	2437	30dBc	Pass			
802.11b	1	11	2462	30dBc	Pass			
802.11g	6	01	2412	30dBc	Pass			
802.11g	6	06	2437	30dBc	Pass			
802.11g	6	11	2462	30dBc	Pass			
802.11n-HT20	6.5	01	2412	30dBc	Pass			
802.11n-HT20	6.5	06	2437	30dBc	Pass			
802.11n-HT20	6.5	11	2462	30dBc	Pass			
802.11n-HT40	13.5	03	2422	30dBc	Pass			
802.11n-HT40	13.5	06	2437	30dBc	Pass			
802.11n-HT40	13.5	09	2452	30dBc	Pass			
Ant 2								
802.11g	6	01	2412	30dBc	Pass			
802.11g	6	06	2437	30dBc	Pass			
802.11g	6	11	2462	30dBc	Pass			
802.11n-HT20	6.5	01	2412	30dBc	Pass			
802.11n-HT20	6.5	06	2437	30dBc	Pass			
802.11n-HT20	6.5	11	2462	30dBc	Pass			
802.11n-HT40	13.5	03	2422	30dBc	Pass			
802.11n-HT40	13.5	06	2437	30dBc	Pass			
802.11n-HT40	13.5	09	2452	30dBc	Pass			
Ant 0 / Ant 0 + 1								
802.11n-HT20	13	01	2412	30dBc	Pass			
802.11n-HT20	13	06	2437	30dBc	Pass			
802.11n-HT20	13	11	2462	30dBc	Pass			
802.11n-HT40	27	03	2422	30dBc	Pass			
802.11n-HT40	27	06	2437	30dBc	Pass			
802.11n-HT40	27	09	2452	30dBc	Pass			

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Channel 01 (2412MHz)

Low Band Edge

Spurious Emission

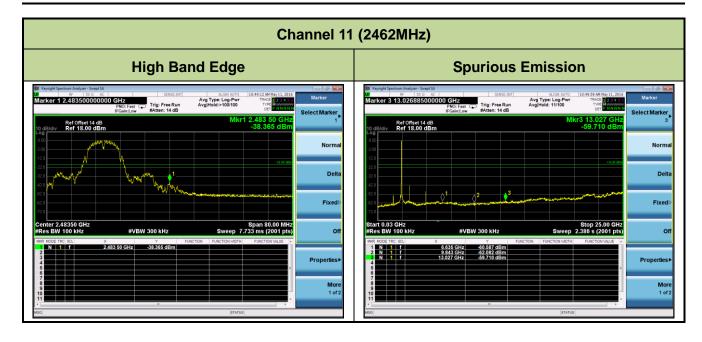




Channel 06 (2437MHz)









802.11g Out-of-Band Emissions - Ant 0

100kHz PSD Reference Level

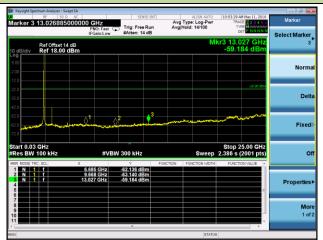


Channel 01 (2412MHz)

Low Band Edge

Spurious Emission

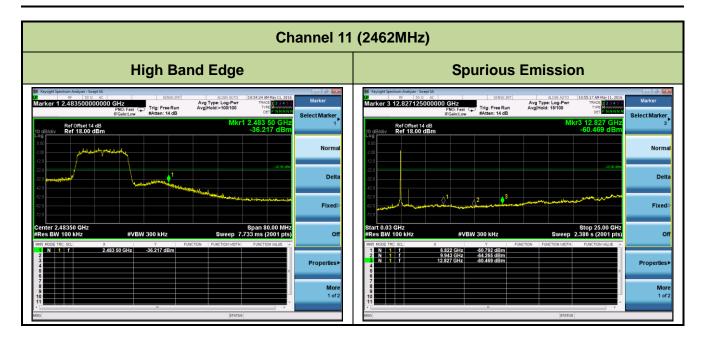




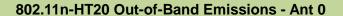
Channel 06 (2437MHz)











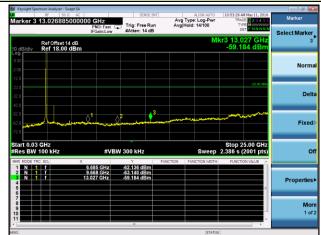


Channel 01 (2412MHz)

Low Band Edge

Spurious Emission

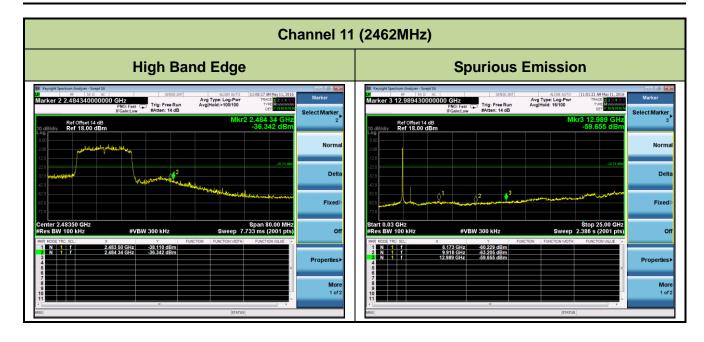




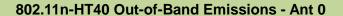
Channel 06 (2437MHz)













Channel 03 (2422MHz)

Low Band Edge

Spurious Emission

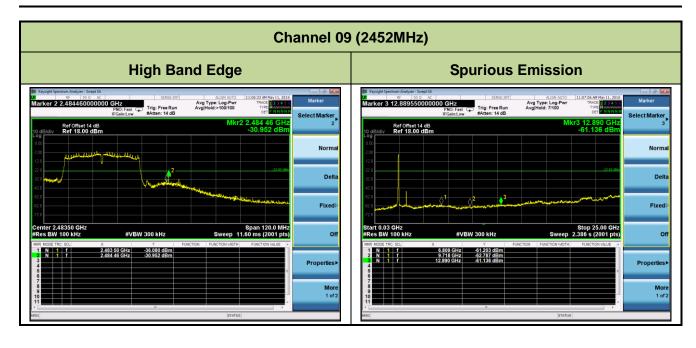




Channel 06 (2437MHz)









802.11g Out-of-Band Emissions - Ant 1

100kHz PSD Reference Level



Channel 01 (2412MHz)

Low Band Edge

Ige Spurious Emission

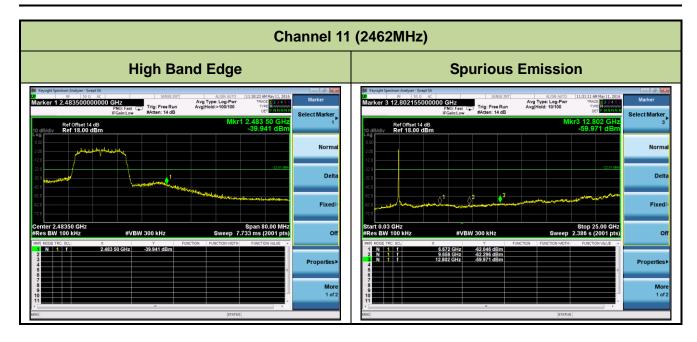




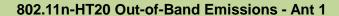
Channel 06 (2437MHz)













Channel 01 (2412MHz)

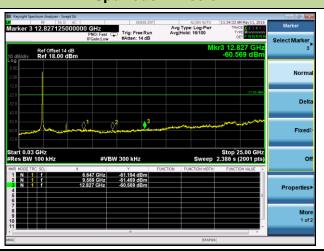
Low Band Edge

Spurious Emission

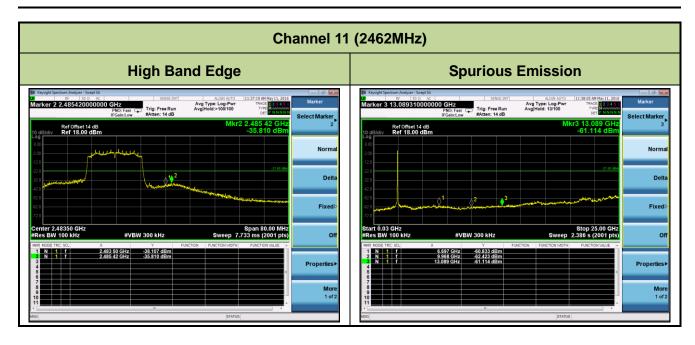




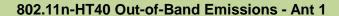
Channel 06 (2437MHz)











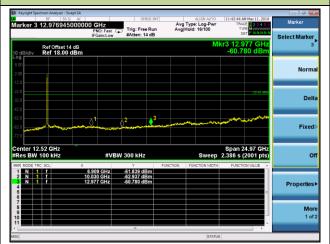


Channel 03 (2422MHz)

Low Band Edge

Spurious Emission

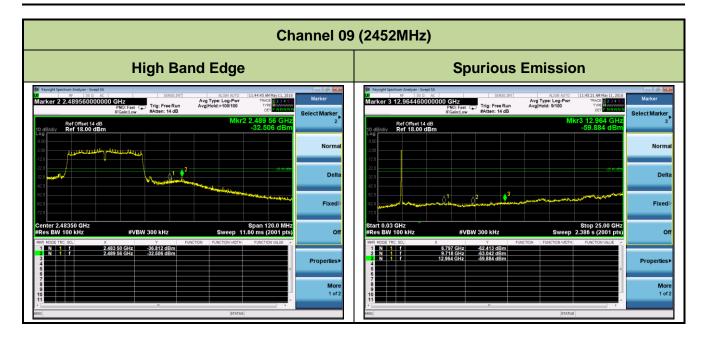




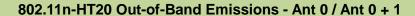
Channel 06 (2437MHz)













Channel 01 (2412MHz)

Low Band Edge



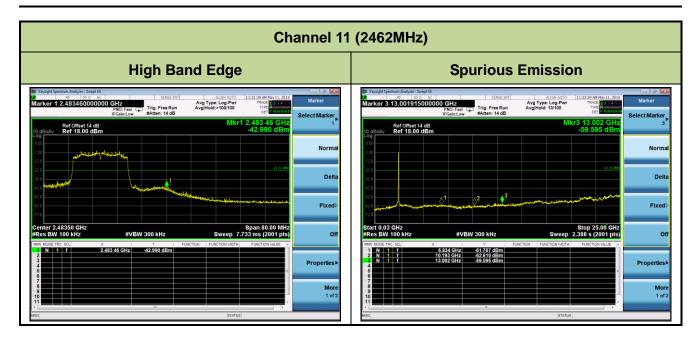
Spurious Emission



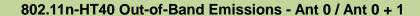
Channel 06 (2437MHz)











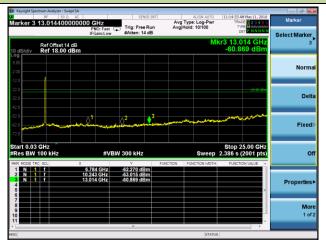


Channel 03 (2422MHz)

Low Band Edge

Spurious Emission

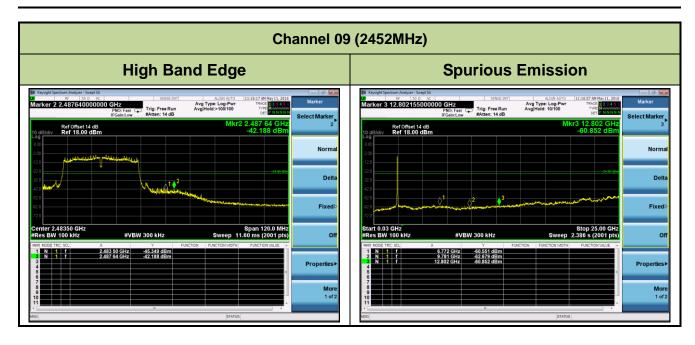




Channel 06 (2437MHz)









7.6. Radiated Spurious Emission Measurement

7.6.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209								
Frequency [MHz]	Field Strength [V/m]	Measured Distance [Meters]						
0.009 - 0.490	2400/F (kHz)	300						
0.490 - 1.705	24000/F (kHz)	30						
1.705 - 30	30	30						
30 - 88	100	3						
88 - 216	150	3						
216 - 960	200	3						
Above 960	500	3						

7.6.2. Test Procedure Used

KDB 558074 D01v03r05 - Section 12.2.3 (quasi-peak measurements)

KDB 558074 D01v03r05 - Section 12.2.4 (peak power measurements)

KDB 558074 D01v03r05 - Section 12.2.5 (average power measurements)

7.6.3. Test Setting

Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = as specified in Table 1
- 3.VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple

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- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

Frequency	RBW		
9 ~ 150 kHz	200 ~ 300 Hz		
0.15 ~ 30 MHz	9 ~ 10 kHz		
30 ~ 1000 MHz	100 ~ 120 kHz		
> 1000 MHz	1 MHz		

Average Field Strength Measurements

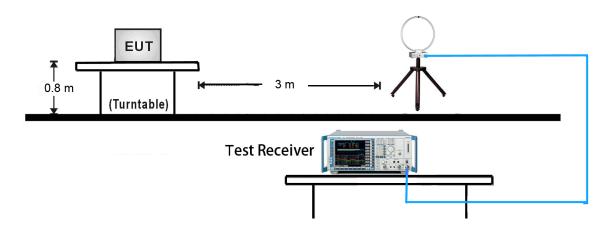
- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2.RBW = 1MHz
- 3. VBW ≥ 1/T
- 4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
- 5. Detector = Peak
- 6. Sweep time = auto
- 7. Trace mode = max hold
- 8. Allow max hold to run for at least 50 times (1/duty cycle) traces

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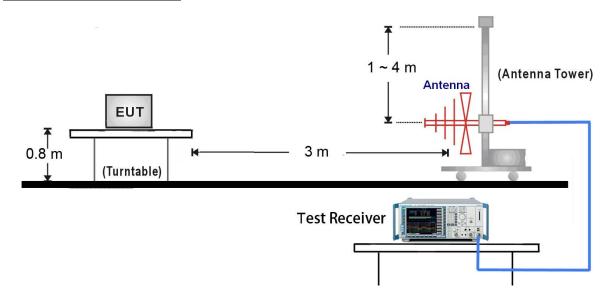


7.6.4. Test Setup

9kHz ~ 30MHz Test Setup:

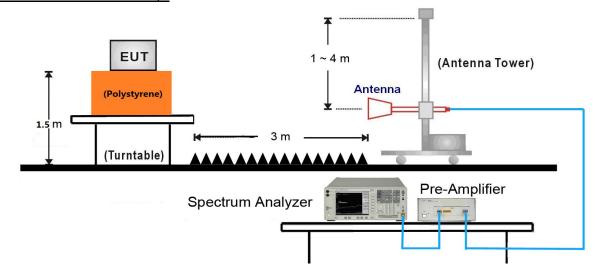


30MHz ~ 1GHz Test Setup:

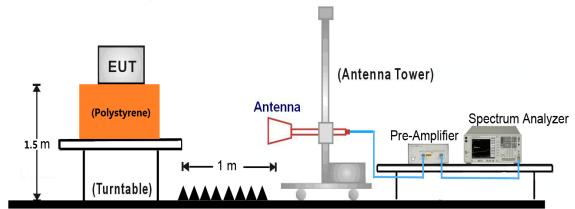




1GHz ~ 18GHz Test Setup:



18GHz ~25GHz Test Setup:







7.6.5. Test Result

Test Mode:	802.11b - Ant 0	Test Site:	AC1				
Test Channel:	01	Test Engineer:	Roy Cheng				
Remark:	Average measurement was not performed if peak level lower than average						
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	3890.0	37.2	0.2	37.4	74.0	-36.6	Peak	Horizontal
	4825.0	37.2	2.7	39.9	74.0	-34.1	Peak	Horizontal
*	6661.0	35.3	6.0	41.3	79.3	-38.0	Peak	Horizontal
*	9644.5	34.9	11.0	45.9	79.3	-33.4	Peak	Horizontal
	3805.0	37.7	-0.2	37.5	74.0	-36.5	Peak	Vertical
	4825.0	39.5	2.7	42.2	74.0	-31.8	Peak	Vertical
*	6482.5	36.1	5.9	42.0	79.3	-37.3	Peak	Vertical
*	9729.5	34.4	11.1	45.5	79.3	-33.8	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (109.3dBµV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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Test Mode:	802.11b - Ant 0	Test Site:	AC1				
Test Channel:	06	Test Engineer:	Roy Cheng				
Remark:	Average measurement was not performed if peak level lower than average						
	limit.						
	2. Other frequency was 20dB bel	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show					
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4876.0	42.3	2.7	45.0	74.0	-29.0	Peak	Horizontal
	7315.5	39.3	8.0	47.3	74.0	-26.7	Peak	Horizontal
*	8743.5	35.7	9.0	44.7	78.3	-33.6	Peak	Horizontal
*	9772.0	33.9	11.4	45.3	78.3	-33.0	Peak	Horizontal
	4876.0	45.6	2.7	48.3	74.0	-25.7	Peak	Vertical
	7307.0	44.0	8.0	52.0	74.0	-22.0	Peak	Vertical
*	8624.0	35.0	8.8	43.8	78.3	-34.5	Peak	Vertical
*	9835.0	32.4	11.6	44.0	78.3	-34.3	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (108.3dBµV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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Test Mode:	802.11b - Ant 0	Test Site:	AC1					
Test Channel:	11	Test Engineer:	Roy Cheng					
Remark:	1. Average measurement was no	Average measurement was not performed if peak level lower than average						
	limit.							
	2. Other frequency was 20dB bel	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.							

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4875.0	35.1	2.7	37.8	74.0	-36.2	Peak	Horizontal
	7452.0	35.2	8.1	43.3	74.0	-30.7	Peak	Horizontal
*	9284.0	33.4	10.3	43.7	77.3	-33.6	Peak	Horizontal
*	12935.0	33.7	12.1	45.8	77.3	-31.5	Peak	Horizontal
	4927.0	39.6	2.8	42.4	74.0	-31.6	Peak	Vertical
	7383.5	38.0	7.9	45.9	74.0	-28.1	Peak	Vertical
*	8754.0	33.8	9.0	42.8	77.3	-34.5	Peak	Vertical
*	12963.0	34.9	12.1	47.0	77.3	-30.3	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (107.3dBµV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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Test Mode:	802.11g - Ant 0	Test Site:	AC1					
Test Channel:	01	Test Engineer:	Roy Cheng					
Remark:	1. Average measurement was no	Average measurement was not performed if peak level lower than average						
	limit.							
	2. Other frequency was 20dB bel	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.							

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4863.0	35.3	2.7	38.0	74.0	-36.0	Peak	Horizontal
	7585.0	34.7	8.2	42.9	74.0	-31.1	Peak	Horizontal
*	9254.0	34.1	10.2	44.3	78.0	-33.7	Peak	Horizontal
*	12854.0	33.6	11.9	45.5	78.0	-32.5	Peak	Horizontal
	4825.0	35.7	2.7	38.4	74.0	-35.6	Peak	Vertical
	7256.0	34.9	7.9	42.8	74.0	-31.2	Peak	Vertical
*	9636.0	36.2	11.0	47.2	78.0	-30.8	Peak	Vertical
*	12837.0	33.9	11.9	45.8	78.0	-32.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level ($108.0dB\mu V/m$) or FCC 15.209 which is higher.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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Test Mode:	802.11g - Ant 0	Test Site:	AC1					
Test Channel:	06	Test Engineer:	Roy Cheng					
Remark:	1. Average measurement was no	Average measurement was not performed if peak level lower than average						
	limit.							
	2. Other frequency was 20dB bel	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.							

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4876.0	39.4	2.7	42.1	74.0	-31.9	Peak	Horizontal
	7307.0	38.2	8.0	46.2	74.0	-27.8	Peak	Horizontal
*	8974.0	34.3	9.0	43.3	83.3	-40.0	Peak	Horizontal
*	12879.0	34.1	12.0	46.1	83.3	-37.2	Peak	Horizontal
	4876.0	42.2	2.7	44.9	74.0	-29.1	Peak	Vertical
	7315.5	42.4	8.0	50.4	74.0	-23.6	Peak	Vertical
*	9619.0	35.6	10.9	46.5	83.3	-36.8	Peak	Vertical
*	12875.0	34.5	12.0	46.5	83.3	-36.8	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (113.3dBµV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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Test Mode:	802.11g - Ant 0	Test Site:	AC1					
Test Channel:	11	Test Engineer:	Roy Cheng					
Remark:	1. Average measurement was no	. Average measurement was not performed if peak level lower than average						
	limit.	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show							
	in the report.							

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	3907.0	37.5	0.2	37.7	74.0	-36.3	Peak	Horizontal
	4825.0	35.9	2.7	38.6	74.0	-35.4	Peak	Horizontal
*	6576.0	36.1	6.0	42.1	78.6	-36.5	Peak	Horizontal
*	9746.5	34.9	11.3	46.2	78.6	-32.4	Peak	Horizontal
	3839.0	37.4	0.0	37.4	74.0	-36.6	Peak	Vertical
	4791.0	36.6	2.7	39.3	74.0	-34.7	Peak	Vertical
*	6482.5	36.3	5.9	42.2	78.6	-36.4	Peak	Vertical
*	9636.0	33.8	11.0	44.8	78.6	-33.8	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (108.6dBµV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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Test Mode:	802.11n-HT20 - Ant 0	Test Site:	AC1					
Test Channel:	01	Test Engineer:	Roy Cheng					
Remark:	1. Average measurement was no	. Average measurement was not performed if peak level lower than average						
	limit.							
	2. Other frequency was 20dB bel	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.							

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	3745.5	37.7	-0.4	37.3	74.0	-36.7	Peak	Horizontal
	4825.0	36.0	2.7	38.7	74.0	-35.3	Peak	Horizontal
*	6601.5	35.6	6.0	41.6	75.7	-34.1	Peak	Horizontal
*	9636.0	34.7	11.0	45.7	75.7	-30.0	Peak	Horizontal
	3762.5	37.2	-0.3	36.9	74.0	-37.1	Peak	Vertical
	4689.0	36.1	2.3	38.4	74.0	-35.6	Peak	Vertical
*	6431.5	35.4	5.6	41.0	75.7	-34.7	Peak	Vertical
*	9678.5	34.5	10.9	45.4	75.7	-30.3	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (105.7dBµV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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Test Mode:	802.11n-HT20 - Ant 0	Test Site:	AC1					
Test Channel:	06	Test Engineer:	Roy Cheng					
Remark:	1. Average measurement was no	Average measurement was not performed if peak level lower than average						
	limit.							
	2. Other frequency was 20dB bel	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.							

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4867.5	39.2	2.7	41.9	74.0	-32.1	Peak	Horizontal
	7307.0	37.3	8.0	45.3	74.0	-28.7	Peak	Horizontal
*	8718.0	35.1	9.0	44.1	87.2	-43.1	Peak	Horizontal
*	9602.0	34.8	10.9	45.7	87.2	-41.5	Peak	Horizontal
	4876.0	39.8	2.7	42.5	74.0	-31.5	Peak	Vertical
	7315.5	38.7	8.0	46.7	74.0	-27.3	Peak	Vertical
*	8616.0	34.9	8.8	43.7	87.2	-43.5	Peak	Vertical
*	9899.5	34.1	11.6	45.7	87.2	-41.5	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (117.2dBµV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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Test Mode:	802.11n-HT20 - Ant 0	Test Site:	AC1					
Test Channel:	11	Test Engineer:	Roy Cheng					
Remark:	1. Average measurement was no	Average measurement was not performed if peak level lower than average						
	limit.							
	2. Other frequency was 20dB bel	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.							

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	3805.0	37.9	-0.2	37.7	74.0	-36.3	Peak	Horizontal
	4808.0	36.6	2.7	39.3	74.0	-34.7	Peak	Horizontal
*	6440.0	35.5	5.7	41.2	76.5	-35.3	Peak	Horizontal
*	9738.0	34.1	11.2	45.3	76.5	-31.2	Peak	Horizontal
	3813.5	36.9	-0.2	36.7	74.0	-37.3	Peak	Vertical
	4876.0	36.5	2.7	39.2	74.0	-34.8	Peak	Vertical
*	6542.0	35.6	5.9	41.5	76.5	-35.0	Peak	Vertical
*	9627.5	35.2	11.0	46.2	76.5	-30.3	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (106.5dBµV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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Test Mode:	802.11n-HT40 - Ant 0	Test Site:	AC1					
Test Channel:	03	Test Engineer:	Roy Cheng					
Remark:	1. Average measurement was no	. Average measurement was not performed if peak level lower than average						
	limit.							
	2. Other frequency was 20dB bel	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.							

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	3822.0	36.6	-0.1	36.5	74.0	-37.5	Peak	Horizontal
	4757.0	35.9	2.6	38.5	74.0	-35.5	Peak	Horizontal
*	6678.0	36.3	5.9	42.2	74.0	-31.8	Peak	Horizontal
*	9653.0	33.9	11.0	44.9	74.0	-29.1	Peak	Horizontal
	3847.5	37.8	0.0	37.8	74.0	-36.2	Peak	Vertical
	4825.0	35.9	2.7	38.6	74.0	-35.4	Peak	Vertical
*	6610.0	35.2	6.0	41.2	74.0	-32.8	Peak	Vertical
*	9678.5	34.9	10.9	45.8	74.0	-28.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (101.5dBµV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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Test Mode:	802.11n-HT40 - Ant 0	Test Site:	AC1					
Test Channel:	06	Test Engineer:	Roy Cheng					
Remark:	, and the second	Average measurement was not performed if peak level lower than average						
	limit.	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show							
	in the report.							

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	3856.0	36.7	0.1	36.8	74.0	-37.2	Peak	Horizontal
	4774.0	35.8	2.6	38.4	74.0	-35.6	Peak	Horizontal
*	6593.0	35.4	6.0	41.4	79.8	-38.4	Peak	Horizontal
*	9610.5	34.5	10.9	45.4	79.8	-34.4	Peak	Horizontal
	4893.0	38.6	2.7	41.3	74.0	-32.7	Peak	Vertical
	7349.5	39.7	8.0	47.7	74.0	-26.3	Peak	Vertical
*	8905.0	34.0	9.2	43.2	79.8	-36.6	Peak	Vertical
*	9857.0	33.2	11.6	44.8	79.8	-35.0	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (109.8dBµV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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Test Mode:	802.11n-HT40 - Ant 0	Test Site:	AC1					
Test Channel:	09	Test Engineer:	Roy Cheng					
Remark:	1. Average measurement was no	t performed if peak	level lower than average					
	limit.							
	2. Other frequency was 20dB bel	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.							

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	3847.5	36.8	0.0	36.8	74.0	-37.2	Peak	Horizontal
	4833.5	35.0	2.7	37.7	74.0	-36.3	Peak	Horizontal
*	6423.0	35.4	5.6	41.0	74.0	-33.0	Peak	Horizontal
*	9636.0	33.8	11.0	44.8	74.0	-29.2	Peak	Horizontal
	3830.5	36.9	-0.1	36.8	74.0	-37.2	Peak	Vertical
	4782.5	36.9	2.7	39.6	74.0	-34.4	Peak	Vertical
*	6482.5	35.6	5.9	41.5	74.0	-32.5	Peak	Vertical
*	9712.5	34.1	11.0	45.1	74.0	-28.9	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (102.0dBµV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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Test Mode:	802.11g - Ant 1	Test Site:	AC1				
Test Channel:	01	Test Engineer:	Roy Cheng				
Remark:	1. Average measurement was no	t performed if peak	level lower than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	3830.5	36.7	-0.1	36.6	74.0	-37.4	Peak	Horizontal
	4833.5	35.9	2.7	38.6	74.0	-35.4	Peak	Horizontal
*	6533.5	35.3	5.9	41.2	78.2	-37.0	Peak	Horizontal
*	9738.0	34.7	11.2	45.9	78.2	-32.3	Peak	Horizontal
	3873.0	36.2	0.1	36.3	74.0	-37.7	Peak	Vertical
	4825.0	36.5	2.7	39.2	74.0	-34.8	Peak	Vertical
*	6559.0	36.3	6.0	42.3	78.2	-35.9	Peak	Vertical
*	9763.5	33.7	11.4	45.1	78.2	-33.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (108.2dBµV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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Test Mode:	802.11g - Ant 1	Test Site:	AC1					
Test Channel:	06	Test Engineer:	Roy Cheng					
Remark:	1. Average measurement was no	t performed if peak	level lower than average					
	limit.							
	2. Other frequency was 20dB bel	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.							

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4867.5	35.7	2.7	38.4	74.0	-35.6	Peak	Horizontal
	7307.0	40.7	8.0	48.7	74.0	-25.3	Peak	Horizontal
*	8658.5	34.6	8.8	43.4	82.1	-38.7	Peak	Horizontal
*	9678.5	33.7	10.9	44.6	82.1	-37.5	Peak	Horizontal
	4859.0	37.3	2.7	40.0	74.0	-34.0	Peak	Vertical
	7307.0	45.6	8.0	53.6	74.0	-20.4	Peak	Vertical
*	8667.0	35.1	8.9	44.0	82.1	-38.1	Peak	Vertical
*	9899.5	34.2	11.6	45.8	82.1	-36.3	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (112.1dBµV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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Test Mode:	802.11g - Ant 1	Test Site:	AC1					
Test Channel:	11	Test Engineer:	Roy Cheng					
Remark:	1. Average measurement was no	t performed if peak	level lower than average					
	limit.							
	2. Other frequency was 20dB bel	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.							

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	3847.5	37.3	0.0	37.3	74.0	-36.7	Peak	Horizontal
	4833.5	36.5	2.7	39.2	74.0	-34.8	Peak	Horizontal
*	6576.0	35.1	6.0	41.1	75.6	-34.5	Peak	Horizontal
*	9755.0	33.3	11.4	44.7	75.6	-30.9	Peak	Horizontal
	4876.0	35.8	2.7	38.5	74.0	-35.5	Peak	Vertical
	7383.5	37.6	7.9	45.5	74.0	-28.5	Peak	Vertical
*	8692.5	35.3	9.0	44.3	75.6	-31.3	Peak	Vertical
*	9865.5	33.4	11.6	45.0	75.6	-30.6	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (105.6dBµV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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Test Mode:	802.11n-HT20 - Ant 1	Test Site:	AC1				
Test Channel:	01	Test Engineer:	Roy Cheng				
Remark:	1. Average measurement was no	t performed if peak	level lower than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	3813.5	37.1	-0.2	36.9	74.0	-37.1	Peak	Horizontal
	4791.0	35.7	2.7	38.4	74.0	-35.6	Peak	Horizontal
*	6695.0	35.5	5.8	41.3	76.3	-35.0	Peak	Horizontal
*	9874.0	33.0	11.6	44.6	76.3	-31.7	Peak	Horizontal
	3881.5	35.4	0.1	35.5	74.0	-38.5	Peak	Vertical
	4842.0	35.7	2.7	38.4	74.0	-35.6	Peak	Vertical
*	6627.0	36.1	6.0	42.1	76.3	-34.2	Peak	Vertical
*	9644.5	34.3	11.0	45.3	76.3	-31.0	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (106.3dBµV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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Test Mode:	802.11n-HT20 - Ant 1	Test Site:	AC1					
Test Channel:	06	Test Engineer:	Roy Cheng					
Remark:	1. Average measurement was no	t performed if peak	level lower than average					
	limit.							
	2. Other frequency was 20dB bel	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.							

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4876.0	35.5	2.7	38.2	74.0	-35.8	Peak	Horizontal
	7324.0	41.3	8.0	49.3	74.0	-24.7	Peak	Horizontal
*	8633.0	35.5	8.8	44.3	81.1	-36.8	Peak	Horizontal
*	9882.5	33.6	11.6	45.2	81.1	-35.9	Peak	Horizontal
	4867.5	37.7	2.7	40.4	74.0	-33.6	Peak	Vertical
	7315.5	45.8	8.0	53.8	74.0	-20.2	Peak	Vertical
*	8760.5	34.4	9.0	43.4	81.1	-37.7	Peak	Vertical
*	9882.5	33.8	11.6	45.4	81.1	-35.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (111.1dBµV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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