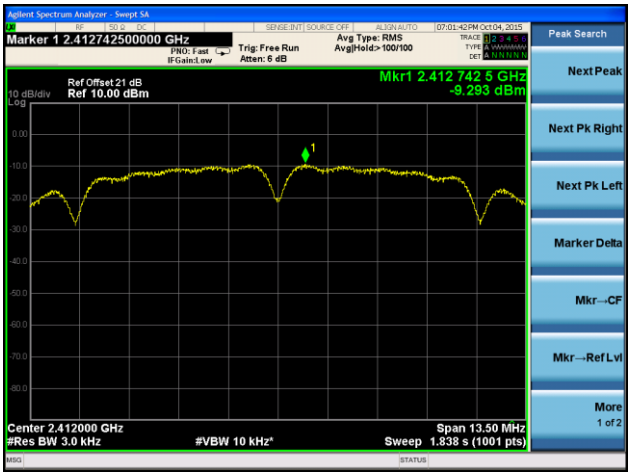
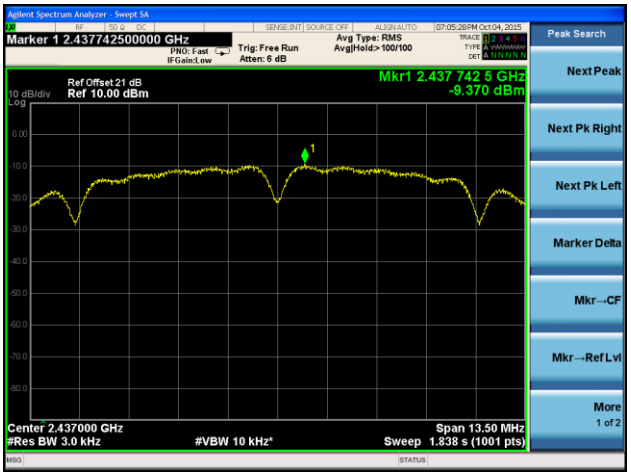
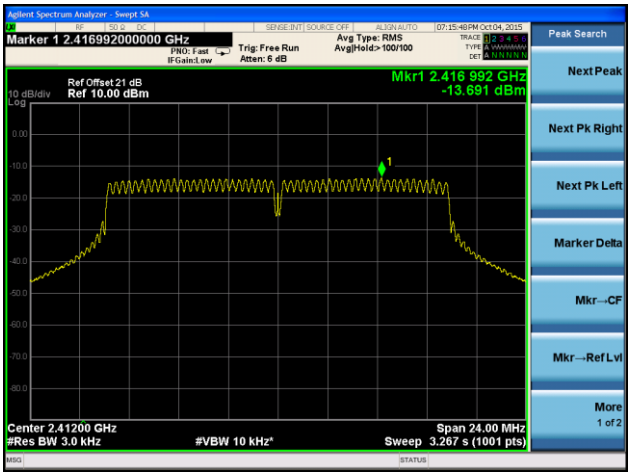
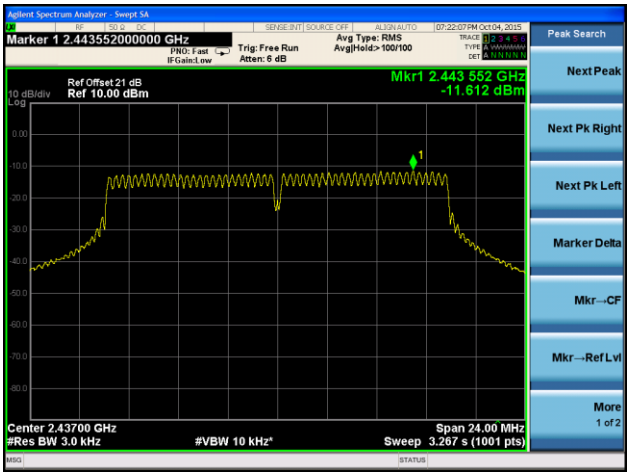
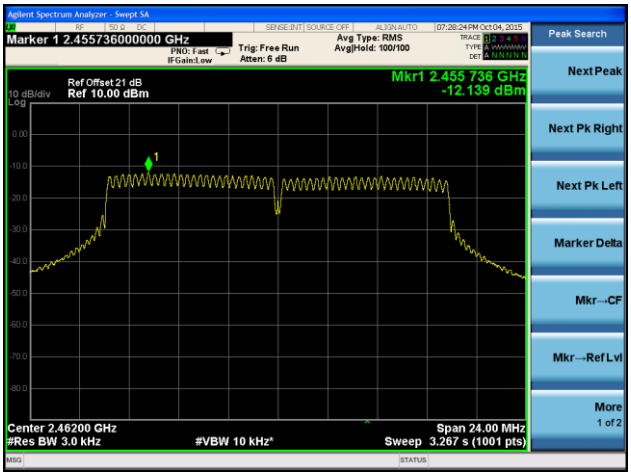
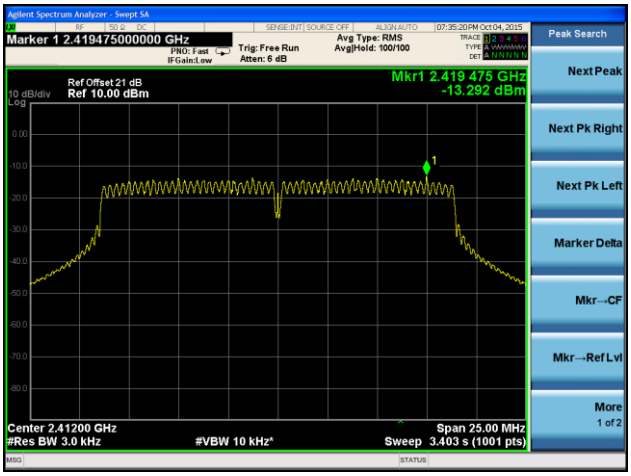
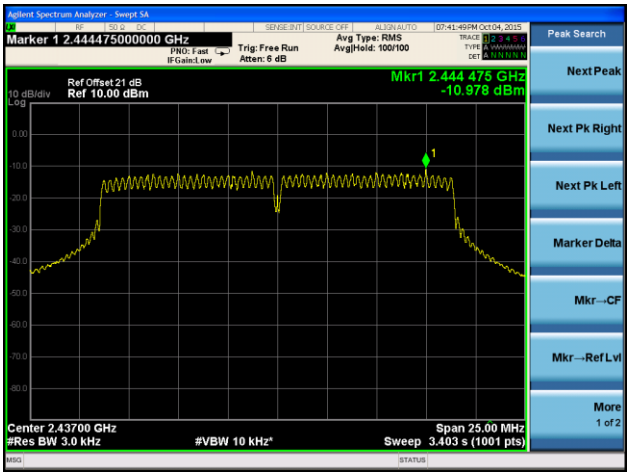
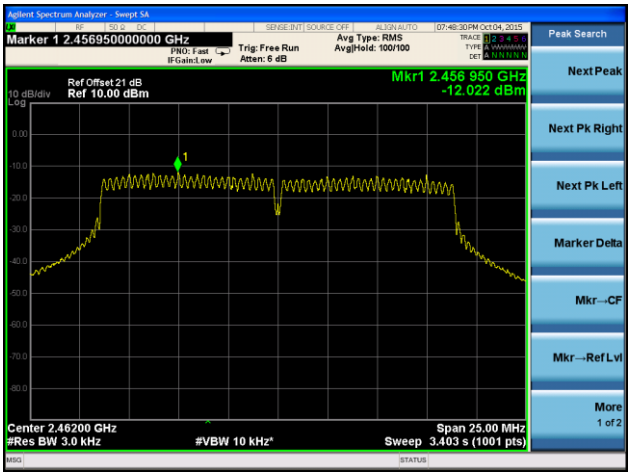
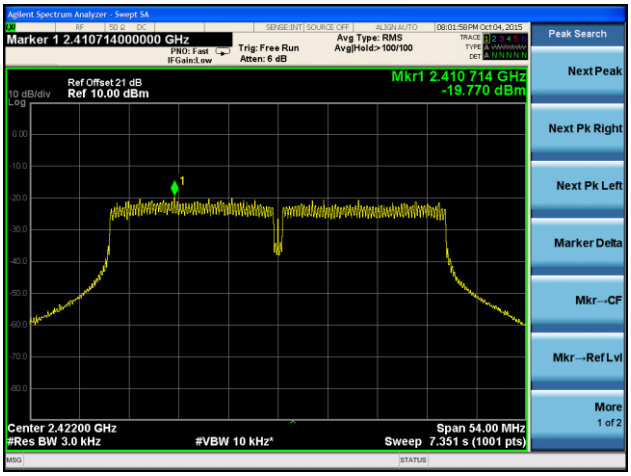
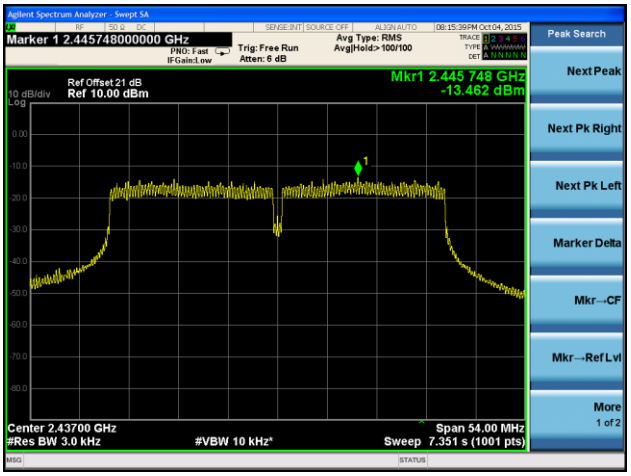
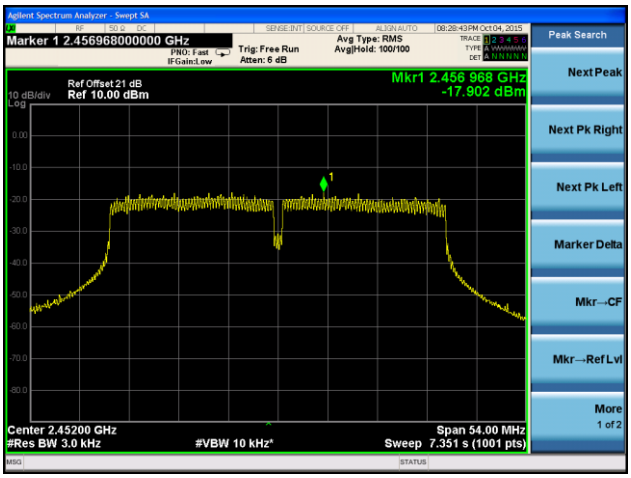
802.11b AVGPSD - Ant 2 / Ant 1 + 2	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

802.11g AVGPSD - Ant 2 / Ant 1 + 2	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

802.11n-HT20 AVGPSD - Ant 2 / Ant 1 + 2	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

802.11n-HT40 AVGPSD - Ant 2 / Ant 1 + 2	
Channel 03 (2422MHz)	**Channel 06 (2437MHz)**
	
Channel 09 (2452MHz)	
	

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 D01v03r03 - 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 ≥ 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

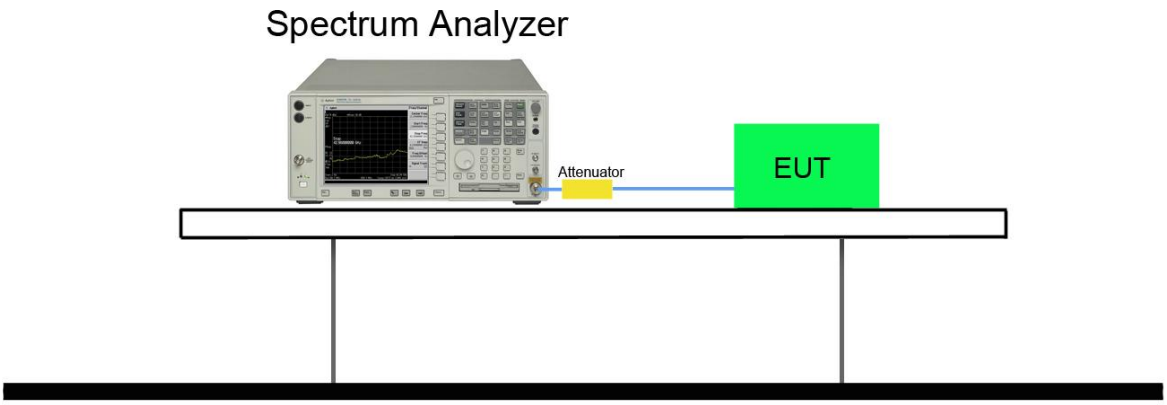
(d) Detector = Peak

(e) Trace mode = max hold

(f) Sweep time = auto couple

(g) The trace was allowed to stabilize

7.5.4. Test Setup

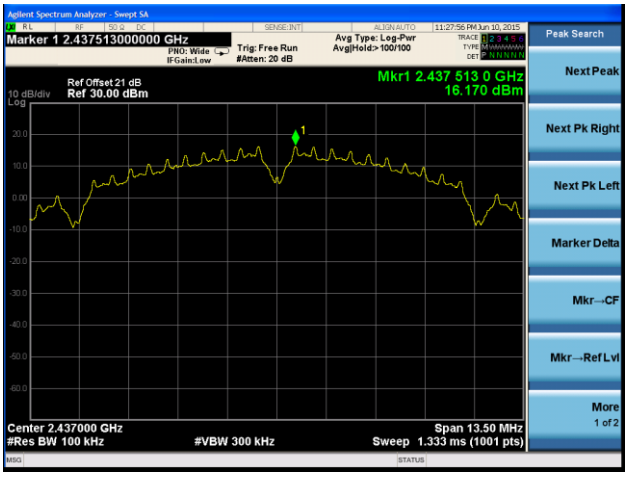


7.5.5. Test Result

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					
802.11b	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

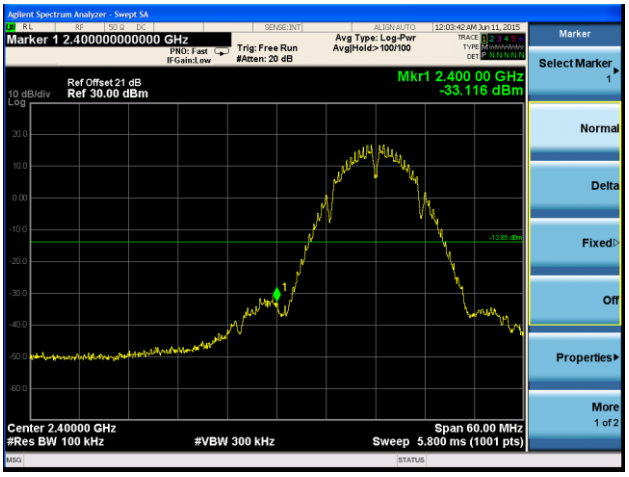
802.11b Out-of-Band Emissions - Ant 1

100kHz PSD Reference Level

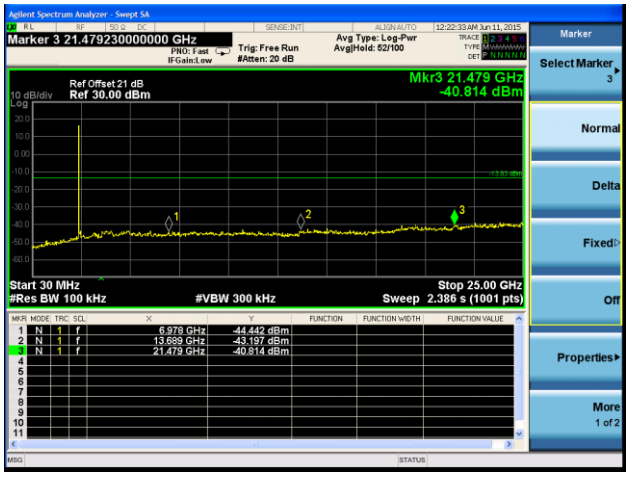


Channel 01 (2412MHz)

Low Band Edge

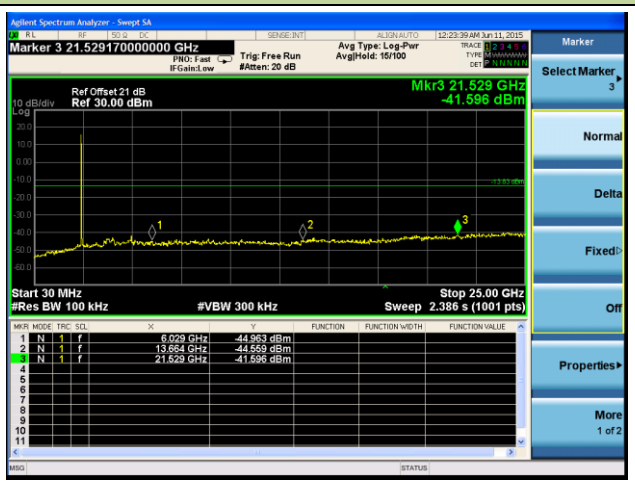


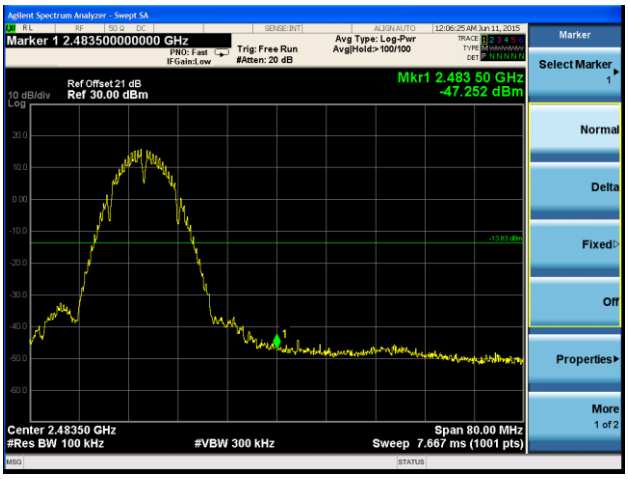
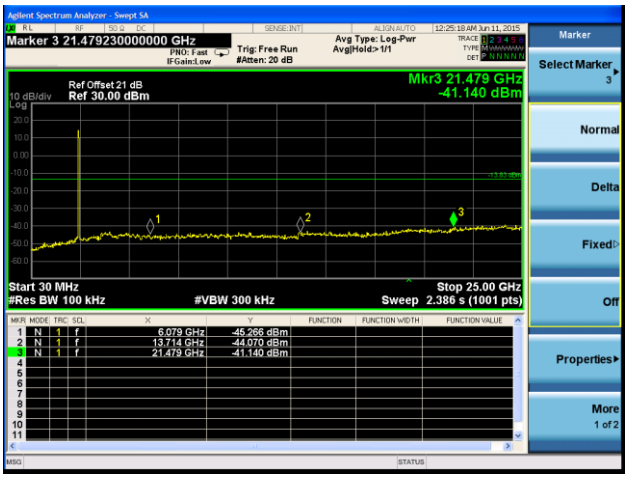
Spurious Emission



Channel 06 (2437MHz)

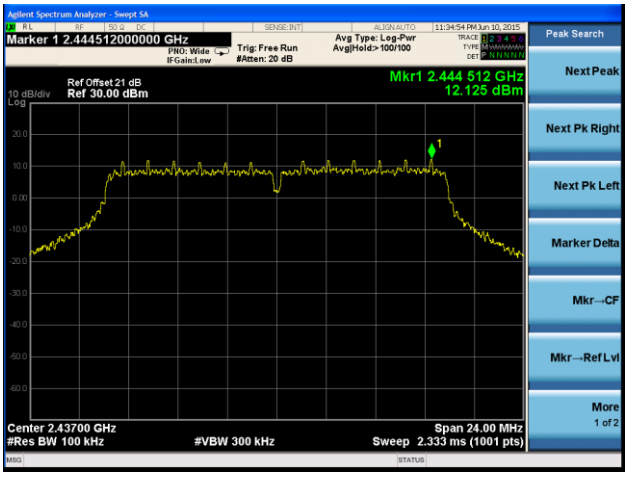
Spurious Emission



Channel 11 (2462MHz)	
High Band Edge	**Spurious Emission**
	

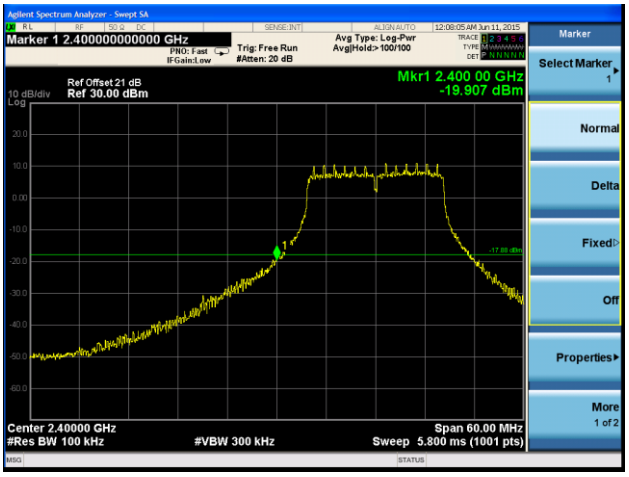
802.11g Out-of-Band Emissions - Ant 1

100kHz PSD Reference Level

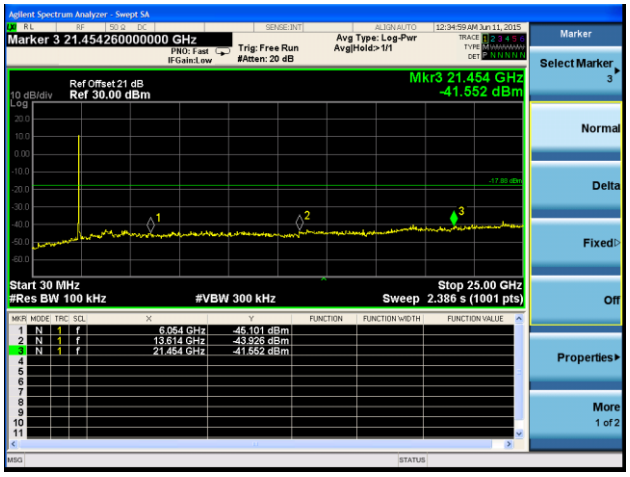


Channel 01 (2412MHz)

Low Band Edge

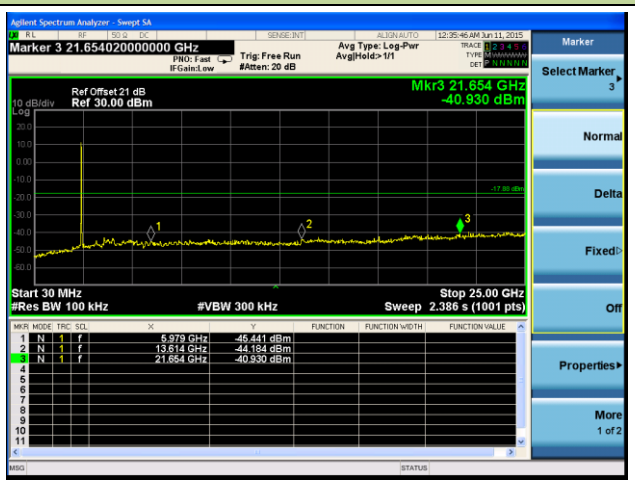


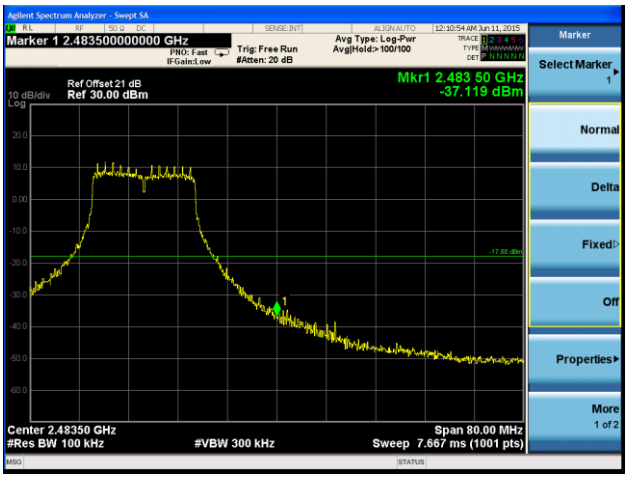
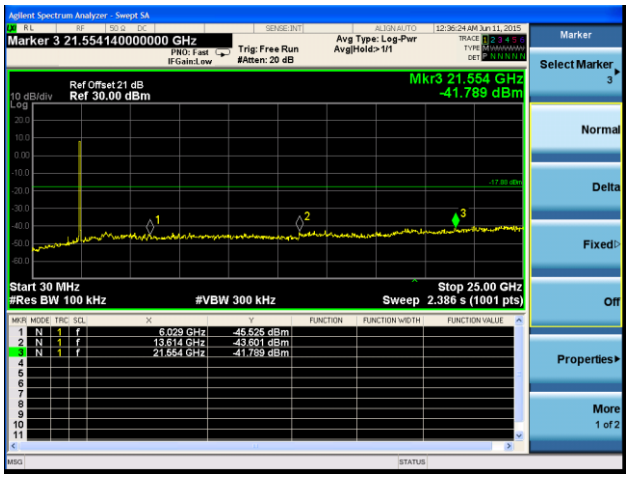
Spurious Emission



Channel 06 (2437MHz)

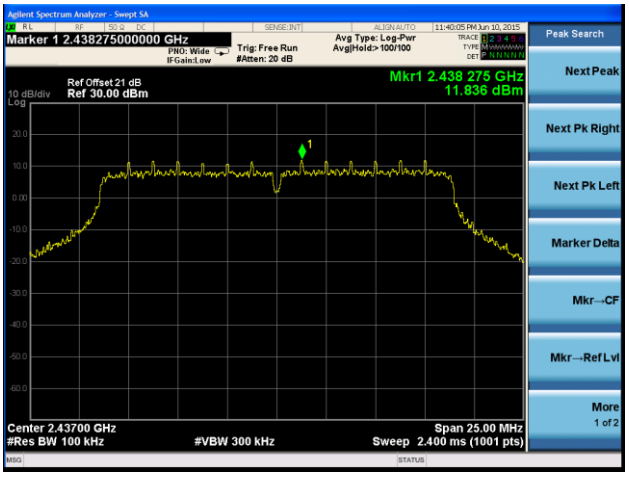
Spurious Emission



Channel 11 (2462MHz)	
High Band Edge	**Spurious Emission**
	

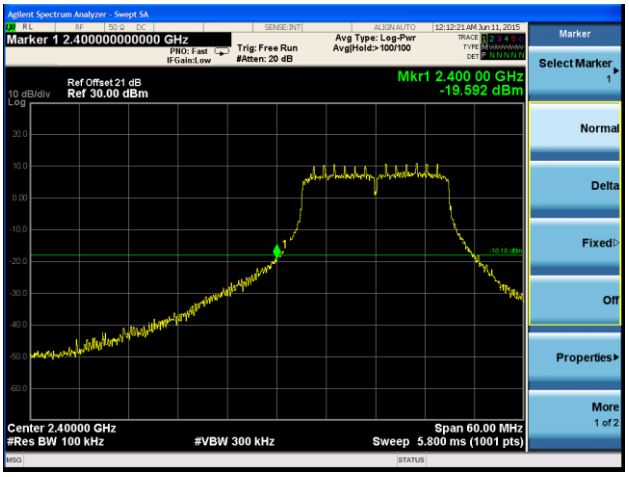
802.11n-HT20 Out-of-Band Emissions - Ant 1

100kHz PSD Reference Level

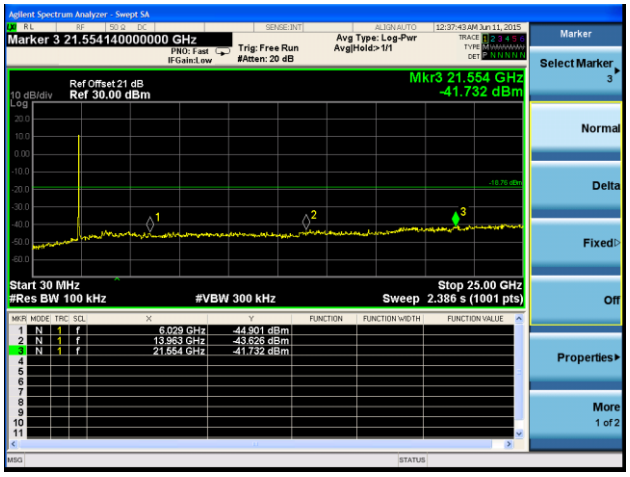


Channel 01 (2412MHz)

Low Band Edge

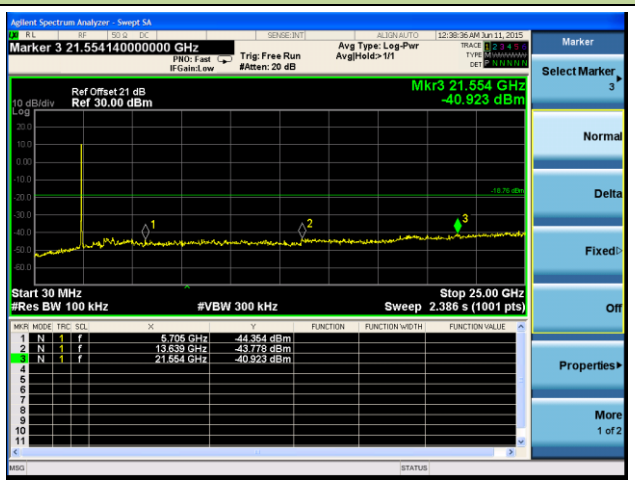


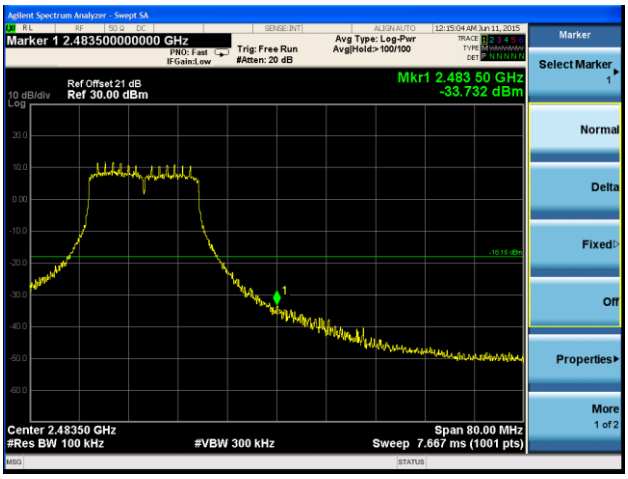
Spurious Emission



Channel 06 (2437MHz)

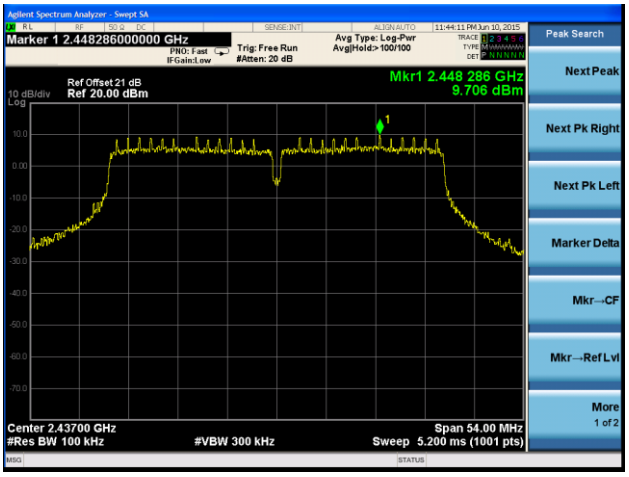
Spurious Emission



Channel 11 (2462MHz)	
High Band Edge	**Spurious Emission**
	

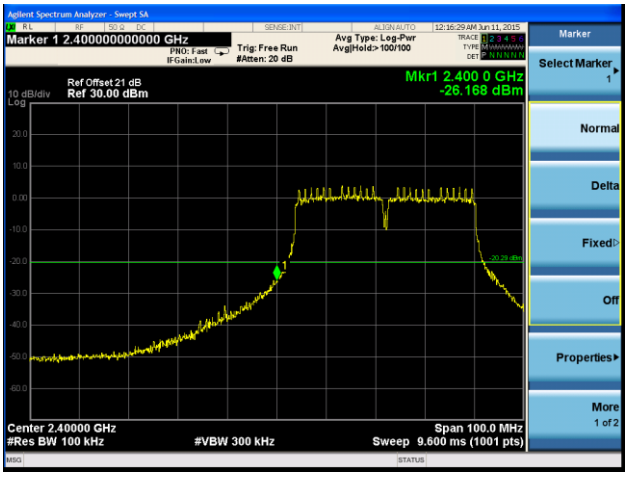
802.11n-HT40 Out-of-Band Emissions - Ant 1

100kHz PSD Reference Level

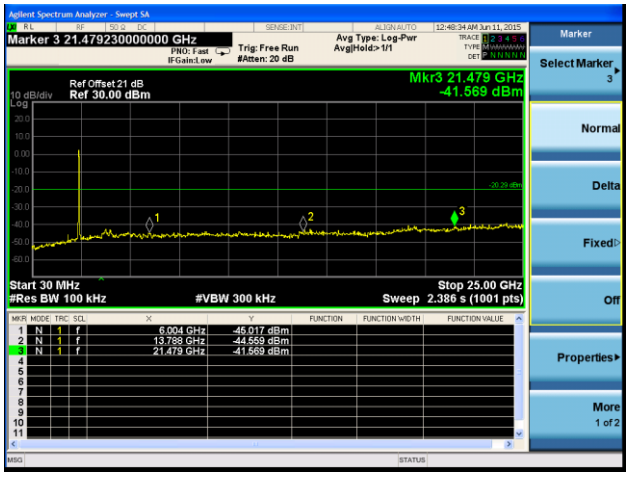


Channel 03 (2422MHz)

Low Band Edge

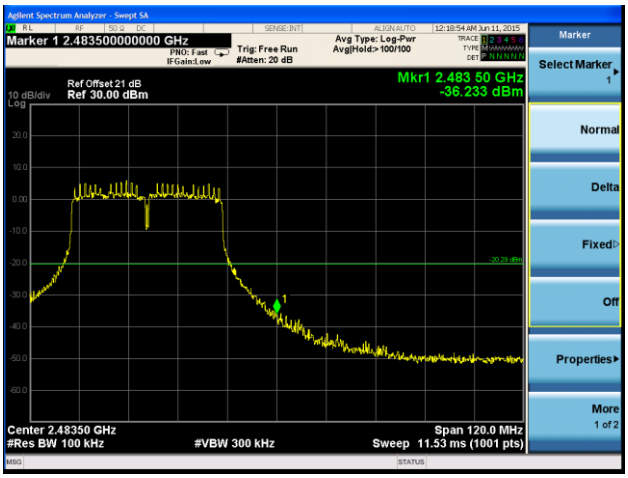


Spurious Emission



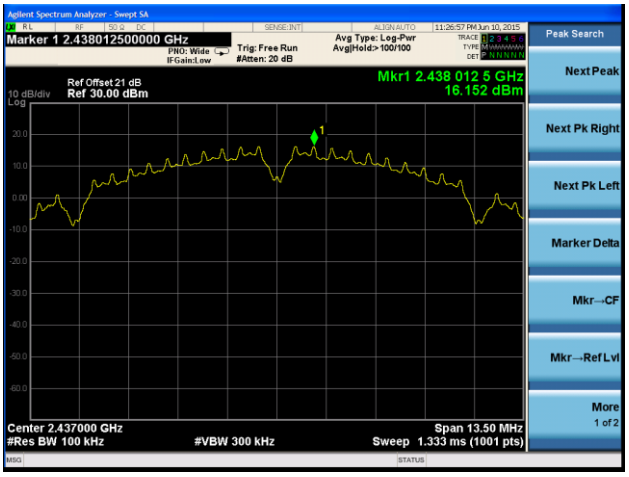
Channel 06 (2437MHz)

Spurious Emission

Channel 09 (2452MHz)	
High Band Edge	**Spurious Emission**
	

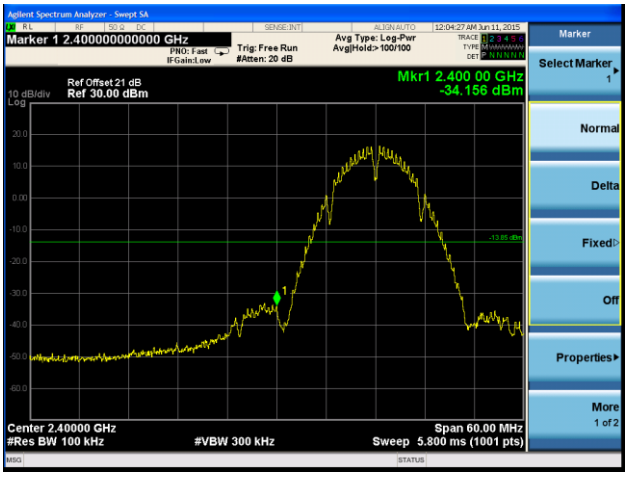
802.11b Out-of-Band Emissions - Ant 2

100kHz PSD Reference Level

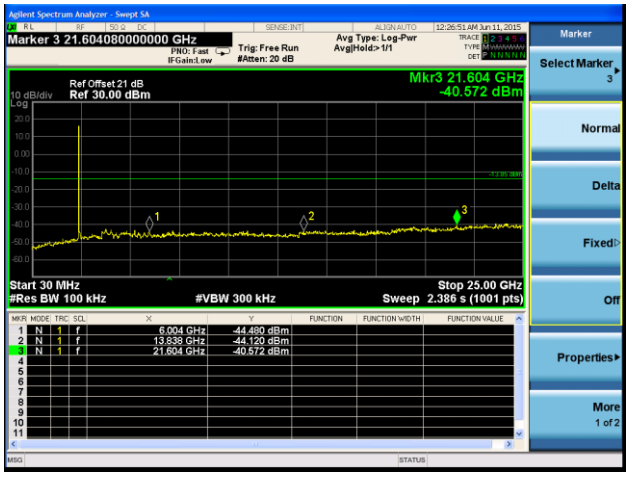


Channel 01 (2412MHz)

Low Band Edge

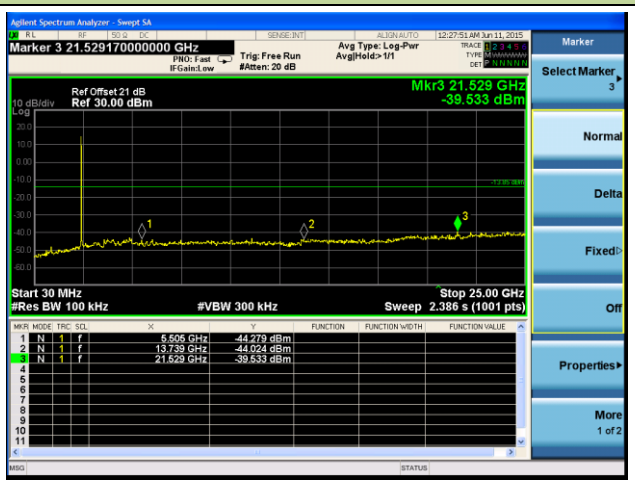


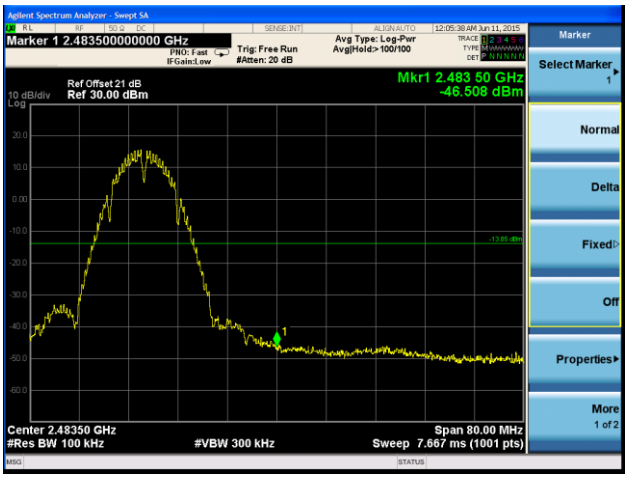
Spurious Emission



Channel 06 (2437MHz)

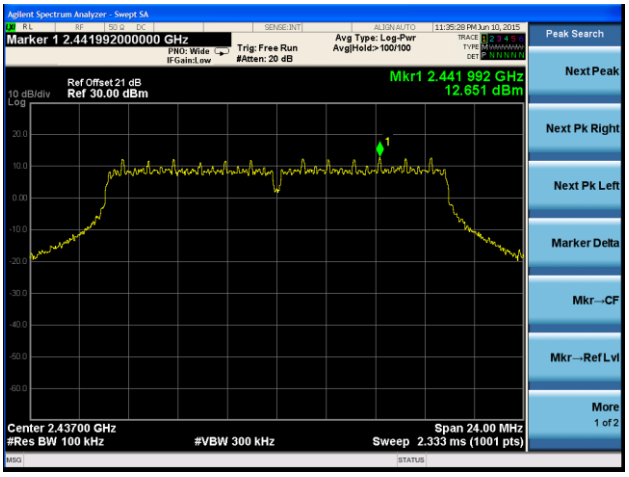
Spurious Emission



Channel 11 (2462MHz)	
High Band Edge	**Spurious Emission**
	

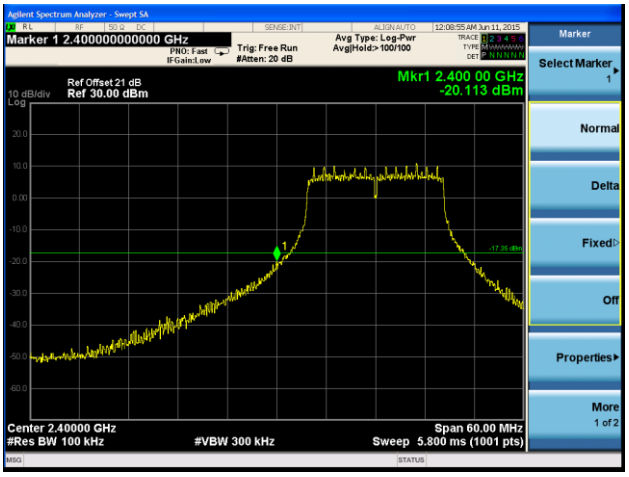
802.11g Out-of-Band Emissions - Ant 2

100kHz PSD Reference Level

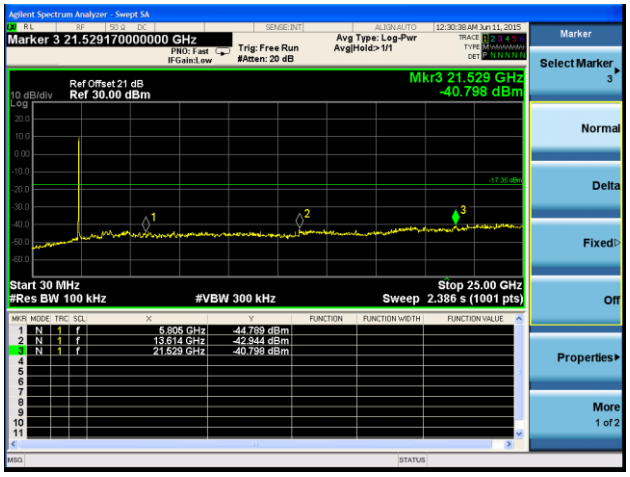


Channel 01 (2412MHz)

Low Band Edge

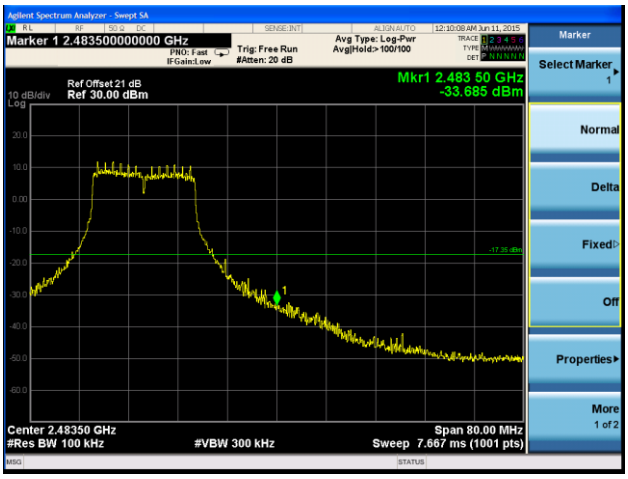
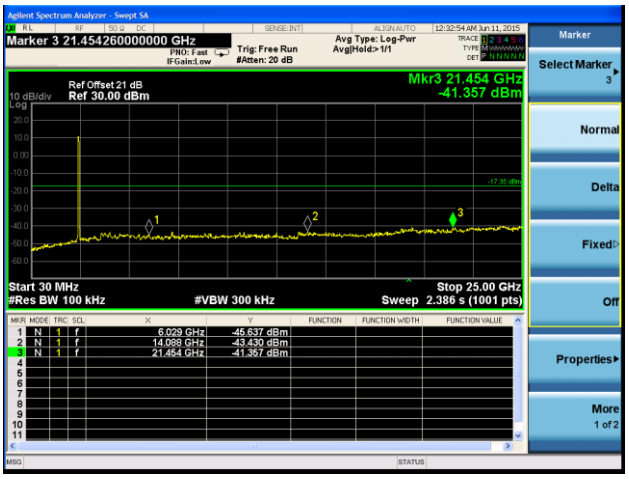


Spurious Emission



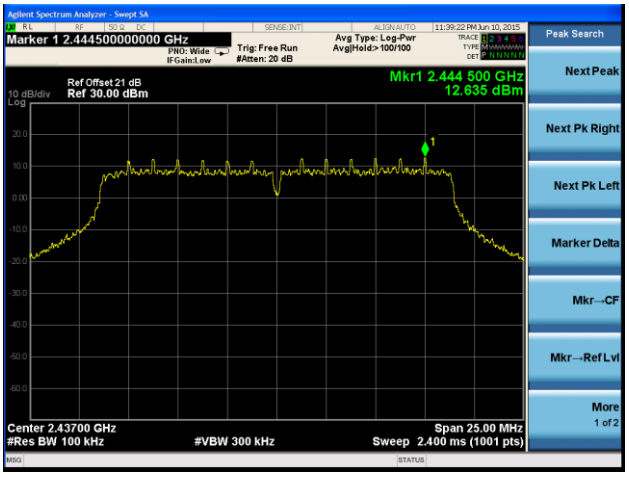
Channel 06 (2437MHz)

Spurious Emission

Channel 11 (2462MHz)	
High Band Edge	**Spurious Emission**
	

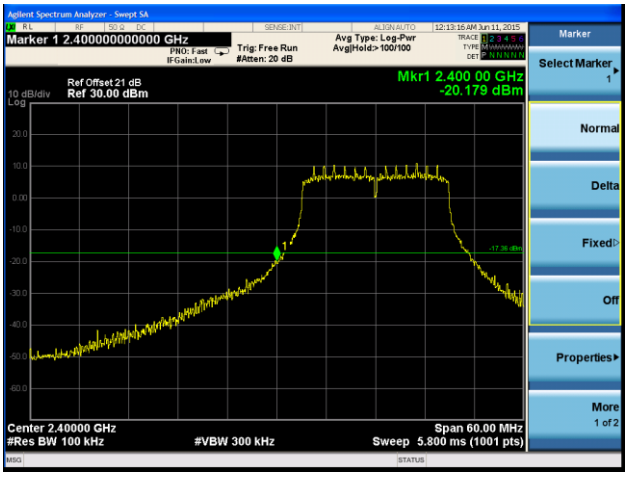
802.11n-HT20 Out-of-Band Emissions - Ant 2

100kHz PSD Reference Level

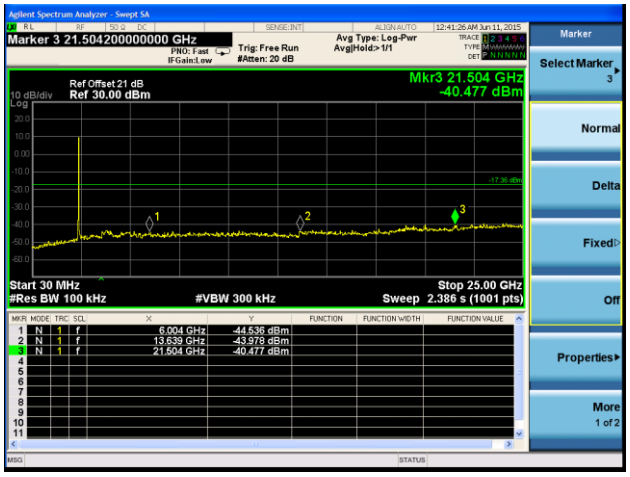


Channel 01 (2412MHz)

Low Band Edge

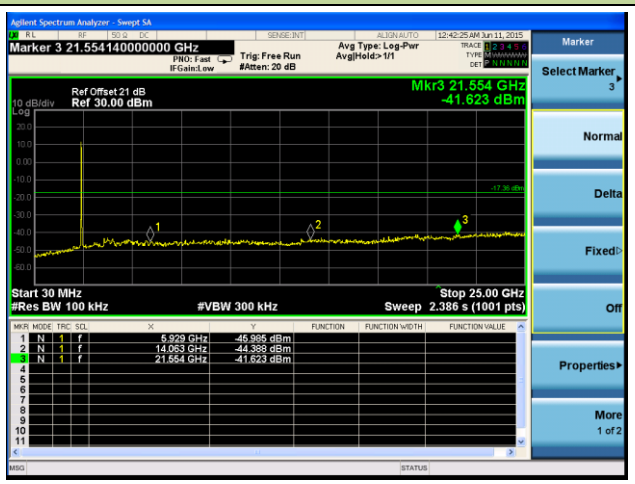


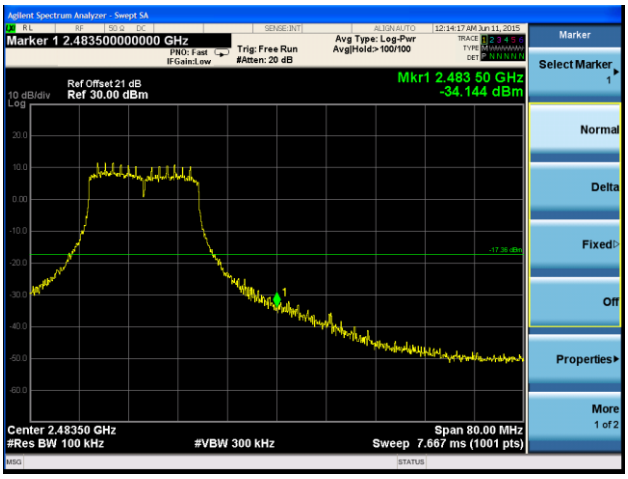
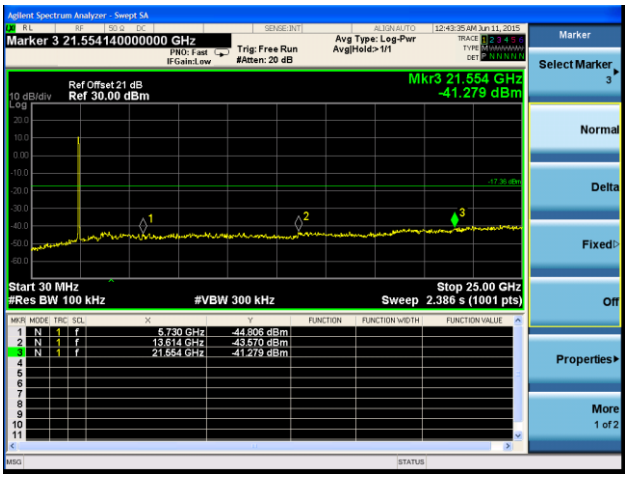
Spurious Emission



Channel 06 (2437MHz)

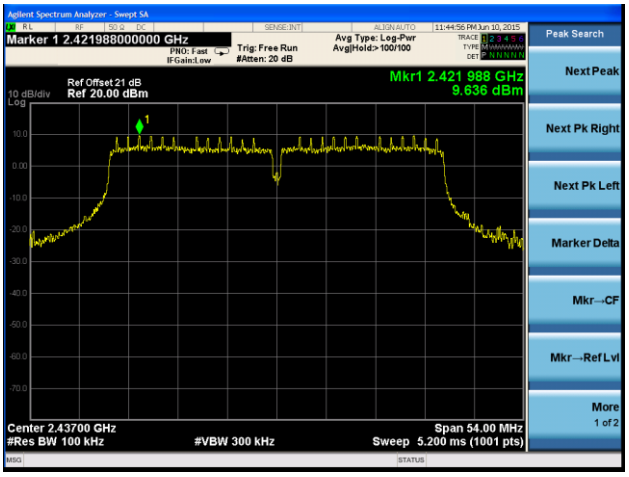
Spurious Emission



Channel 11 (2462MHz)	
High Band Edge	**Spurious Emission**
	

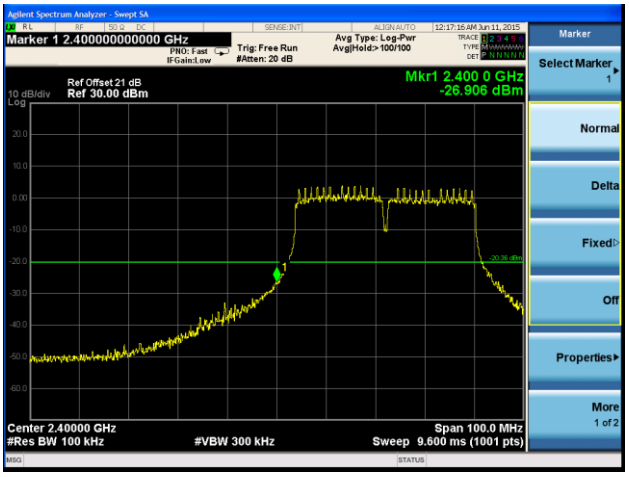
802.11n-HT40 Out-of-Band Emissions - Ant 2

100kHz PSD Reference Level



Channel 03 (2422MHz)

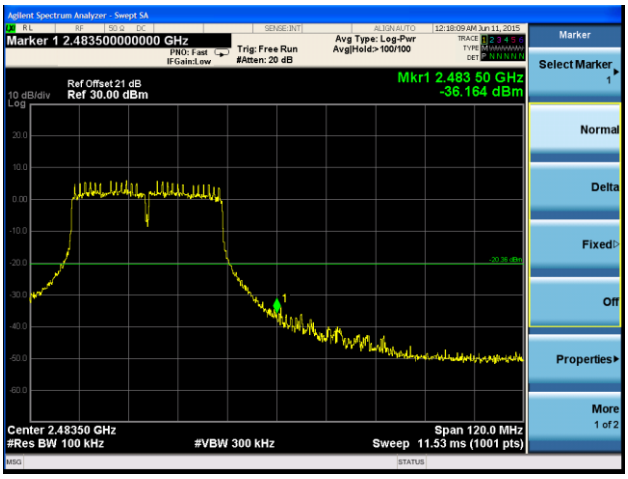
Low Band Edge



Spurious Emission

Channel 06 (2437MHz)

Spurious Emission

Channel 09 (2452MHz)	
High Band Edge	**Spurious Emission**
	

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 D01v03r03 - Section 12.2.3 (quasi-peak measurements)

KDB 558074 D01v03r03 - Section 12.2.4 (peak power measurements)

KDB 558074 D01v03r03 - 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

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

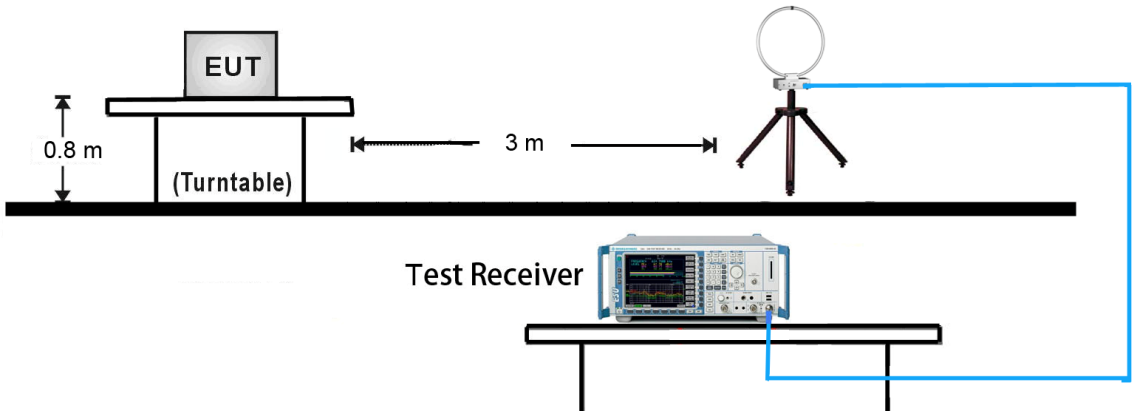
6. Sweep time = auto

7. Trace mode = max hold

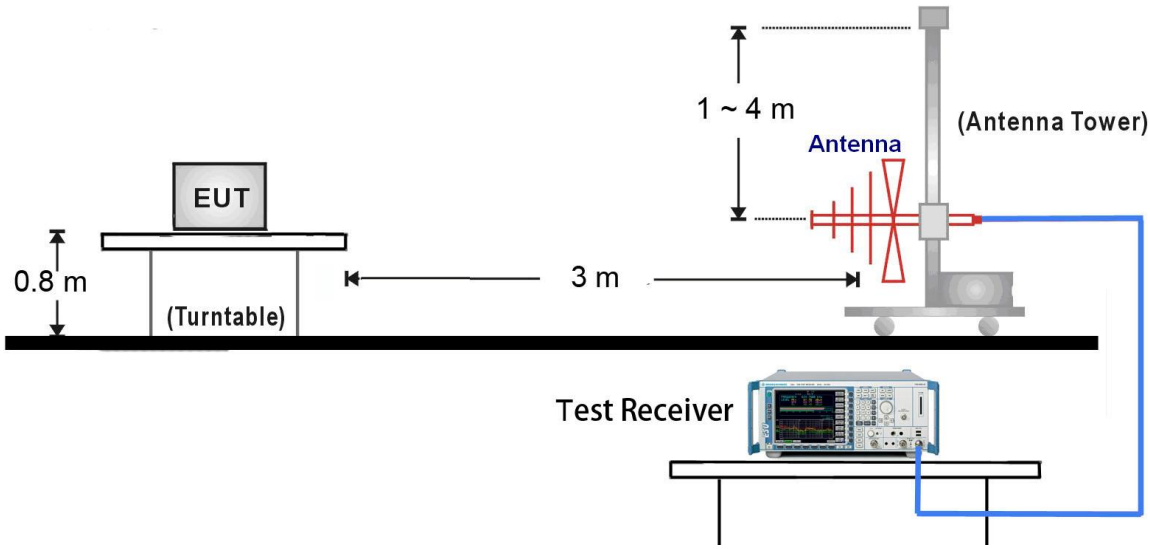
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

7.6.4. Test Setup

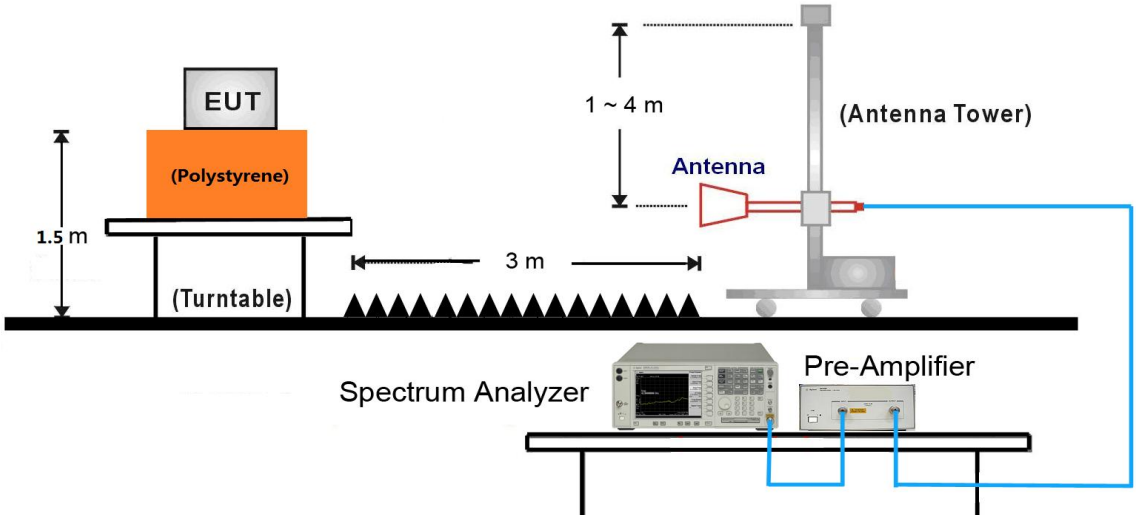
9kHz ~ 30MHz Test Setup:



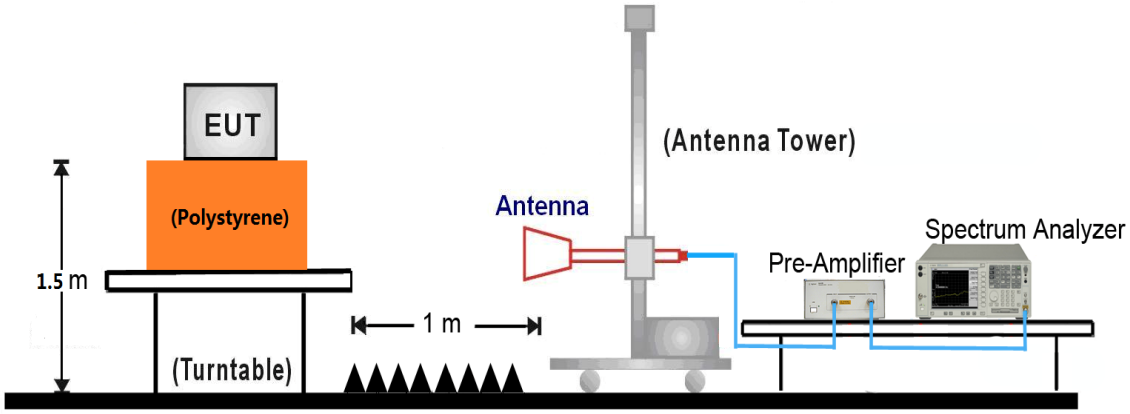
30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:



18GHz ~25GHz Test Setup:



7.6.5. Test Result

Test Mode:	802.11b - Ant 1	Test Site:	AC1
Test Channel:	01	Test Engineer:	Roy Cheng
Remark:	1. 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 (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4536.0	39.7	-3.3	36.4	74.0	-37.6	Peak	Horizontal
	5386.0	40.2	-2.5	37.7	74.0	-36.3	Peak	Horizontal
*	7086.0	39.8	1.0	40.8	84.1	-43.3	Peak	Horizontal
*	10154.5	39.4	4.1	43.5	84.1	-40.6	Peak	Horizontal
	7264.5	40.5	1.4	41.9	74.0	-32.1	Peak	Vertical
	8276.0	40.1	1.1	41.2	74.0	-32.8	Peak	Vertical
*	10044.0	40.5	4.1	44.6	84.1	-39.5	Peak	Vertical
*	12976.5	41.0	3.4	44.4	84.1	-39.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (114.1dBμV/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)

Test Mode:	802.11b - Ant 1	Test Site:	AC1
Test Channel:	06	Test Engineer:	Roy Cheng
Remark:	1. 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 (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7434.5	39.6	1.4	41.0	74.0	-33.0	Peak	Horizontal
	9134.5	40.3	2.4	42.7	74.0	-31.3	Peak	Horizontal
*	9908.0	39.3	4.1	43.4	84.4	-41.0	Peak	Horizontal
*	12781.0	40.8	3.1	43.9	84.4	-40.5	Peak	Horizontal
	7511.0	39.2	1.6	40.8	74.0	-33.2	Peak	Vertical
	9126.0	40.1	2.3	42.4	74.0	-31.6	Peak	Vertical
*	10520.0	40.8	4.8	45.6	84.4	-38.8	Peak	Vertical
*	13129.5	40.5	3.7	44.2	84.4	-40.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (114.4dBμV/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)

Test Mode:	802.11b - Ant 1	Test Site:	AC1
Test Channel:	11	Test Engineer:	Roy Cheng
Remark:	1. 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 (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7315.5	40.6	1.5	42.1	74.0	-31.9	Peak	Horizontal
	9381.0	39.4	3.2	42.6	74.0	-31.4	Peak	Horizontal
*	10401.0	40.2	4.7	44.9	84.7	-39.8	Peak	Horizontal
*	13503.5	42.6	4.8	47.4	84.7	-37.3	Peak	Horizontal
	7664.0	40.5	1.2	41.7	74.0	-32.3	Peak	Vertical
	8327.0	40.5	1.0	41.5	74.0	-32.5	Peak	Vertical
*	9738.0	40.1	3.9	44.0	84.7	-40.7	Peak	Vertical
*	13214.5	41.3	3.8	45.1	84.7	-39.6	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (114.7dBμV/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)

Test Mode:	802.11g - Ant 1	Test Site:	AC1
Test Channel:	01	Test Engineer:	Roy Cheng
Remark:	1. 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 (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7468.5	40.2	1.5	41.7	74.0	-32.3	Peak	Horizontal
	9134.5	39.4	2.4	41.8	74.0	-32.2	Peak	Horizontal
*	10044.0	39.5	4.1	43.6	85.1	-41.5	Peak	Horizontal
*	12738.5	41.3	3.0	44.3	85.1	-40.8	Peak	Horizontal
	7400.5	40.3	1.3	41.6	74.0	-32.4	Peak	Vertical
	9134.5	39.8	2.4	42.2	74.0	-31.8	Peak	Vertical
*	10273.5	39.4	4.4	43.8	85.1	-41.3	Peak	Vertical
*	12891.5	41.4	3.3	44.7	85.1	-40.4	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (115.1dBμV/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)

Test Mode:	802.11g - Ant 1	Test Site:	AC1
Test Channel:	06	Test Engineer:	Roy Cheng
Remark:	1. 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 (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7553.5	39.7	1.6	41.3	74.0	-32.7	Peak	Horizontal
	9338.5	39.2	3.2	42.4	74.0	-31.6	Peak	Horizontal
*	10290.5	34.2	12.0	46.2	86.1	-39.9	Peak	Horizontal
*	13121.0	41.9	3.7	45.6	86.1	-40.5	Peak	Horizontal
	7511.0	39.1	1.6	40.7	74.0	-33.3	Peak	Vertical
	8293.0	40.0	1.1	41.1	74.0	-32.9	Peak	Vertical
*	10078.0	32.7	11.5	44.2	86.1	-41.9	Peak	Vertical
*	13197.5	40.4	3.8	44.2	86.1	-41.9	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (116.1dBμV/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)

Test Mode:	802.11g - Ant 1	Test Site:	AC1
Test Channel:	11	Test Engineer:	Roy Cheng
Remark:	1. 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 (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7434.5	39.0	1.4	40.4	74.0	-33.6	Peak	Horizontal
	9177.0	38.9	2.7	41.6	74.0	-32.4	Peak	Horizontal
*	10120.5	33.4	11.6	45.0	84.9	-39.9	Peak	Horizontal
*	13146.5	41.8	3.7	45.5	84.9	-39.4	Peak	Horizontal
	7264.5	39.9	1.4	41.3	74.0	-32.7	Peak	Vertical
	8216.5	39.8	1.3	41.1	74.0	-32.9	Peak	Vertical
*	9602.0	33.6	10.9	44.5	84.9	-40.4	Peak	Vertical
*	12985.0	40.9	3.5	44.4	84.9	-40.5	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (114.9dBμV/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)

Test Mode:	802.11n-HT20 - Ant 1	Test Site:	AC1
Test Channel:	01	Test Engineer:	Roy Cheng
Remark:	1. 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 (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7570.5	40.1	1.5	41.6	74.0	-32.4	Peak	Horizontal
	9423.5	40.1	3.2	43.3	74.0	-30.7	Peak	Horizontal
*	10358.5	32.7	12.2	44.9	83.0	-38.1	Peak	Horizontal
*	12968.0	42.3	3.4	45.7	83.0	-37.3	Peak	Horizontal
	7502.5	39.6	1.6	41.2	74.0	-32.8	Peak	Vertical
	9058.0	39.7	1.8	41.5	74.0	-32.5	Peak	Vertical
*	10086.5	33.0	11.5	44.5	83.0	-38.5	Peak	Vertical
*	13214.5	40.0	3.8	43.8	83.0	-39.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (113.0dBμV/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)

Test Mode:	802.11n-HT20 - Ant 1	Test Site:	AC1
Test Channel:	06	Test Engineer:	Roy Cheng
Remark:	1. 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 (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	5454.0	39.6	-2.1	37.5	74.0	-36.5	Peak	Horizontal
	7468.5	39.5	1.5	41.0	74.0	-33.0	Peak	Horizontal
*	10214.0	34.2	11.8	46.0	84.5	-38.5	Peak	Horizontal
*	12985.0	41.4	3.5	44.9	84.5	-39.6	Peak	Horizontal
	7264.5	39.9	1.4	41.3	74.0	-32.7	Peak	Vertical
	8310.0	40.3	1.0	41.3	74.0	-32.7	Peak	Vertical
*	10511.5	33.1	12.4	45.5	84.5	-39.0	Peak	Vertical
*	13129.5	41.1	3.7	44.8	84.5	-39.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (114.5dBμV/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)

Test Mode:	802.11n-HT20 - Ant 1	Test Site:	AC1
Test Channel:	11	Test Engineer:	Roy Cheng
Remark:	1. 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 (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	8403.5	39.9	1.1	41.0	74.0	-33.0	Peak	Horizontal
	9338.5	39.0	3.2	42.2	74.0	-31.8	Peak	Horizontal
*	10443.5	39.2	4.4	43.6	81.3	-37.7	Peak	Horizontal
*	12891.5	41.4	3.3	44.7	81.3	-36.6	Peak	Horizontal
	8276.0	39.5	1.1	40.6	74.0	-33.4	Peak	Vertical
	9134.5	39.0	2.4	41.4	74.0	-32.6	Peak	Vertical
*	10503.0	33.3	12.4	45.7	81.3	-35.6	Peak	Vertical
*	12840.5	40.9	3.2	44.1	81.3	-37.2	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 30dBc of the fundamental emission level (111.3dBμV/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)

Test Mode:	802.11n-HT40 - Ant 1	Test Site:	AC1
Test Channel:	03	Test Engineer:	Roy Cheng
Remark:	1. 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 (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7587.5	39.9	1.5	41.4	74.0	-32.6	Peak	Horizontal
	9177.0	39.0	2.7	41.7	74.0	-32.3	Peak	Horizontal
*	10503.0	33.3	12.4	45.7	77.9	-32.2	Peak	Horizontal
*	13010.5	39.0	3.5	42.5	77.9	-35.4	Peak	Horizontal
	8310.0	39.4	1.0	40.4	74.0	-33.6	Peak	Vertical
	9466.0	38.9	3.2	42.1	74.0	-31.9	Peak	Vertical
*	10571.0	32.6	12.4	45.0	77.9	-32.9	Peak	Vertical
*	13036.0	40.6	3.6	44.2	77.9	-33.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (107.9dBμV/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)

Test Mode:	802.11n-HT40 - Ant 1	Test Site:	AC1
Test Channel:	06	Test Engineer:	Roy Cheng
Remark:	1. 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 (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7307.0	38.8	1.5	40.3	74.0	-33.7	Peak	Horizontal
	9338.5	39.0	3.2	42.2	74.0	-31.8	Peak	Horizontal
*	10469.0	38.9	4.5	43.4	82.3	-38.9	Peak	Horizontal
*	13860.5	40.3	5.4	45.7	82.3	-36.6	Peak	Horizontal
	7621.5	39.1	1.4	40.5	74.0	-33.5	Peak	Vertical
	8403.5	40.2	1.1	41.3	74.0	-32.7	Peak	Vertical
*	10443.5	38.4	4.4	42.8	82.3	-39.5	Peak	Vertical
*	13129.5	41.1	3.7	44.8	82.3	-37.5	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (112.3dBμV/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)

Test Mode:	802.11n-HT40 - Ant 1	Test Site:	AC1
Test Channel:	09	Test Engineer:	Roy Cheng
Remark:	1. 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 (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7468.5	38.9	1.5	40.4	74.0	-33.6	Peak	Horizontal
	9347.0	38.5	3.2	41.7	74.0	-32.3	Peak	Horizontal
*	10384.0	32.6	12.3	44.9	78.0	-33.1	Peak	Horizontal
*	12900.0	41.3	3.3	44.6	78.0	-33.4	Peak	Horizontal
	7570.5	38.9	1.5	40.4	74.0	-33.6	Peak	Vertical
	8242.0	39.4	1.2	40.6	74.0	-33.4	Peak	Vertical
*	10307.5	38.6	4.5	43.1	78.0	-34.9	Peak	Vertical
*	13206.0	39.6	3.8	43.4	78.0	-34.6	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (108.0dBμV/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)

Test Mode:	802.11b - Ant 2	Test Site:	AC1
Test Channel:	01	Test Engineer:	Roy Cheng
Remark:	1. 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 (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	8310.0	40.9	1.0	41.9	74.0	-32.1	Peak	Horizontal
	9134.5	38.7	2.4	41.1	74.0	-32.9	Peak	Horizontal
*	10443.5	39.4	4.4	43.8	82.0	-38.2	Peak	Horizontal
*	13486.5	41.0	4.7	45.7	82.0	-36.3	Peak	Horizontal
	7460.0	38.3	1.5	39.8	74.0	-34.2	Peak	Vertical
	8335.5	40.3	1.0	41.3	74.0	-32.7	Peak	Vertical
*	9789.0	38.0	4.1	42.1	82.0	-39.9	Peak	Vertical
*	12789.5	40.1	3.2	43.3	82.0	-38.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (112.0dBμV/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)

Test Mode:	802.11b - Ant 2	Test Site:	AC1
Test Channel:	06	Test Engineer:	Roy Cheng
Remark:	1. 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 (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7689.5	39.7	1.2	40.9	74.0	-33.1	Peak	Horizontal
	9432.0	38.1	3.2	41.3	74.0	-32.7	Peak	Horizontal
*	10503.0	32.5	12.4	44.9	82.7	-37.8	Peak	Horizontal
*	12951.0	41.1	3.4	44.5	82.7	-38.2	Peak	Horizontal
	7417.5	39.3	1.3	40.6	74.0	-33.4	Peak	Vertical
	8318.5	39.3	1.0	40.3	74.0	-33.7	Peak	Vertical
*	10358.5	32.5	12.2	44.7	82.7	-38.0	Peak	Vertical
*	13070.0	40.7	3.6	44.3	82.7	-38.4	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 30dBc of the fundamental emission level (112.7dBμV/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)

Test Mode:	802.11b - Ant 2	Test Site:	AC1
Test Channel:	11	Test Engineer:	Roy Cheng
Remark:	1. 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 (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7273.0	40.8	1.4	42.2	74.0	-31.8	Peak	Horizontal
	8242.0	41.2	1.2	42.4	74.0	-31.6	Peak	Horizontal
*	10783.5	32.9	12.6	45.5	83.2	-37.7	Peak	Horizontal
*	13146.5	41.7	3.7	45.4	83.2	-37.8	Peak	Horizontal
	7366.5	39.4	1.4	40.8	74.0	-33.2	Peak	Vertical
	8063.5	38.7	1.8	40.5	74.0	-33.5	Peak	Vertical
*	10120.5	39.2	4.1	43.3	83.2	-39.9	Peak	Vertical
*	12891.5	40.7	3.3	44.0	83.2	-39.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (113.2dBμV/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)

Test Mode:	802.11g - Ant 2	Test Site:	AC1
Test Channel:	01	Test Engineer:	Roy Cheng
Remark:	1. 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 (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	8276.0	40.2	1.1	41.3	74.0	-32.7	Peak	Horizontal
	9304.5	39.8	3.1	42.9	74.0	-31.1	Peak	Horizontal
*	10214.0	38.8	4.3	43.1	83.3	-40.2	Peak	Horizontal
*	13495.0	41.0	4.7	45.7	83.3	-37.6	Peak	Horizontal
	8089.0	38.9	1.7	40.6	74.0	-33.4	Peak	Vertical
	9143.0	38.1	2.4	40.5	74.0	-33.5	Peak	Vertical
*	9942.0	38.1	4.0	42.1	83.3	-41.2	Peak	Vertical
*	12849.0	42.8	3.3	46.1	83.3	-37.2	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)

Test Mode:	802.11g - Ant 2	Test Site:	AC1
Test Channel:	06	Test Engineer:	Roy Cheng
Remark:	1. 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 (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7426.0	38.2	1.3	39.5	74.0	-34.5	Peak	Horizontal
	8199.5	40.1	1.4	41.5	74.0	-32.5	Peak	Horizontal
*	9568.0	33.3	10.9	44.2	83.2	-39.0	Peak	Horizontal
*	12985.0	39.4	3.5	42.9	83.2	-40.3	Peak	Horizontal
	7264.5	38.8	1.4	40.2	74.0	-33.8	Peak	Vertical
	8471.5	40.0	1.2	41.2	74.0	-32.8	Peak	Vertical
*	10494.5	32.5	12.4	44.9	83.2	-38.3	Peak	Vertical
*	13061.5	42.1	3.6	45.7	83.2	-37.5	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (113.2dBμV/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)

Test Mode:	802.11g - Ant 2	Test Site:	AC1
Test Channel:	11	Test Engineer:	Roy Cheng
Remark:	1. 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 (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7672.5	39.4	1.2	40.6	74.0	-33.4	Peak	Horizontal
	9177.0	38.1	2.7	40.8	74.0	-33.2	Peak	Horizontal
*	9772.0	31.8	11.4	43.2	82.8	-39.6	Peak	Horizontal
*	12781.0	40.1	3.1	43.2	82.8	-39.6	Peak	Horizontal
	7349.5	39.4	1.4	40.8	74.0	-33.2	Peak	Vertical
	8131.5	40.1	1.6	41.7	74.0	-32.3	Peak	Vertical
*	10341.5	32.2	12.2	44.4	82.8	-38.4	Peak	Vertical
*	12840.5	39.8	3.2	43.0	82.8	-39.8	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (112.8dBμV/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)

Test Mode:	802.11n-HT20 - Ant 2	Test Site:	AC1
Test Channel:	01	Test Engineer:	Roy Cheng
Remark:	1. 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 (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7638.5	40.3	1.3	41.6	74.0	-32.4	Peak	Horizontal
	9160.0	39.0	2.6	41.6	74.0	-32.4	Peak	Horizontal
*	10290.5	34.0	12.0	46.0	81.5	-35.5	Peak	Horizontal
*	13070.0	40.3	3.6	43.9	81.5	-37.6	Peak	Horizontal
	8063.5	40.1	1.8	41.9	74.0	-32.1	Peak	Vertical
	9177.0	38.8	2.7	41.5	74.0	-32.5	Peak	Vertical
*	10392.5	31.9	12.3	44.2	81.5	-37.3	Peak	Vertical
*	12908.5	41.6	3.3	44.9	81.5	-36.6	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (111.5dBμV/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)

Test Mode:	802.11n-HT20 - Ant 2	Test Site:	AC1
Test Channel:	06	Test Engineer:	Roy Cheng
Remark:	1. 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 (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	5037.5	40.3	-2.2	38.1	74.0	-35.9	Peak	Horizontal
	7732.0	40.3	1.3	41.6	74.0	-32.4	Peak	Horizontal
*	8616.0	39.9	1.7	41.6	82.3	-40.7	Peak	Horizontal
*	9814.5	38.1	4.2	42.3	82.3	-40.0	Peak	Horizontal
	7553.5	39.6	1.6	41.2	74.0	-32.8	Peak	Vertical
	8250.5	40.0	1.2	41.2	74.0	-32.8	Peak	Vertical
*	9534.0	39.4	3.4	42.8	82.3	-39.5	Peak	Vertical
*	10443.5	38.9	4.4	43.3	82.3	-39.0	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (112.3dBμV/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)

Test Mode:	802.11n-HT20 - Ant 2	Test Site:	AC1
Test Channel:	11	Test Engineer:	Roy Cheng
Remark:	1. 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 (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4842.0	40.5	-2.5	38.0	74.0	-36.0	Peak	Horizontal
	7298.5	38.9	1.5	40.4	74.0	-33.6	Peak	Horizontal
*	8862.5	39.0	2.0	41.0	82.0	-41.0	Peak	Horizontal
*	10163.0	33.5	11.7	45.2	82.0	-36.8	Peak	Horizontal
	8488.5	39.6	1.3	40.9	74.0	-33.1	Peak	Vertical
	9338.5	38.5	3.2	41.7	74.0	-32.3	Peak	Vertical
*	10443.5	38.1	4.4	42.5	82.0	-39.5	Peak	Vertical
*	12891.5	40.4	3.3	43.7	82.0	-38.3	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (112.0dBμV/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)

Test Mode:	802.11n-HT40 - Ant 2	Test Site:	AC1
Test Channel:	03	Test Engineer:	Roy Cheng
Remark:	1. 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 (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7604.5	41.1	1.4	42.5	74.0	-31.5	Peak	Horizontal
	9109.0	39.7	2.1	41.8	74.0	-32.2	Peak	Horizontal
*	10554.0	32.0	12.5	44.5	76.8	-32.3	Peak	Horizontal
*	12857.5	41.3	3.3	44.6	76.8	-32.2	Peak	Horizontal
	7426.0	38.7	1.3	40.0	74.0	-34.0	Peak	Vertical
	9015.5	38.7	1.7	40.4	74.0	-33.6	Peak	Vertical
*	10503.0	39.0	4.8	43.8	76.8	-33.0	Peak	Vertical
*	13078.5	41.1	3.7	44.8	76.8	-32.0	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (106.8dBμV/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)

Test Mode:	802.11n-HT40 - Ant 2	Test Site:	AC1
Test Channel:	06	Test Engineer:	Roy Cheng
Remark:	1. 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 (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7536.5	38.6	1.6	40.2	74.0	-33.8	Peak	Horizontal
	8318.5	39.9	1.0	40.9	74.0	-33.1	Peak	Horizontal
*	10239.5	39.3	4.4	43.7	72.1	-28.4	Peak	Horizontal
*	12968.0	41.1	3.4	44.5	72.1	-27.6	Peak	Horizontal
	7281.5	39.0	1.4	40.4	74.0	-33.6	Peak	Vertical
	9100.5	38.5	2.1	40.6	74.0	-33.4	Peak	Vertical
*	10367.0	39.5	4.6	44.1	72.1	-28.0	Peak	Vertical
*	13189.0	39.6	3.8	43.4	72.1	-28.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (102.1dBμV/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)