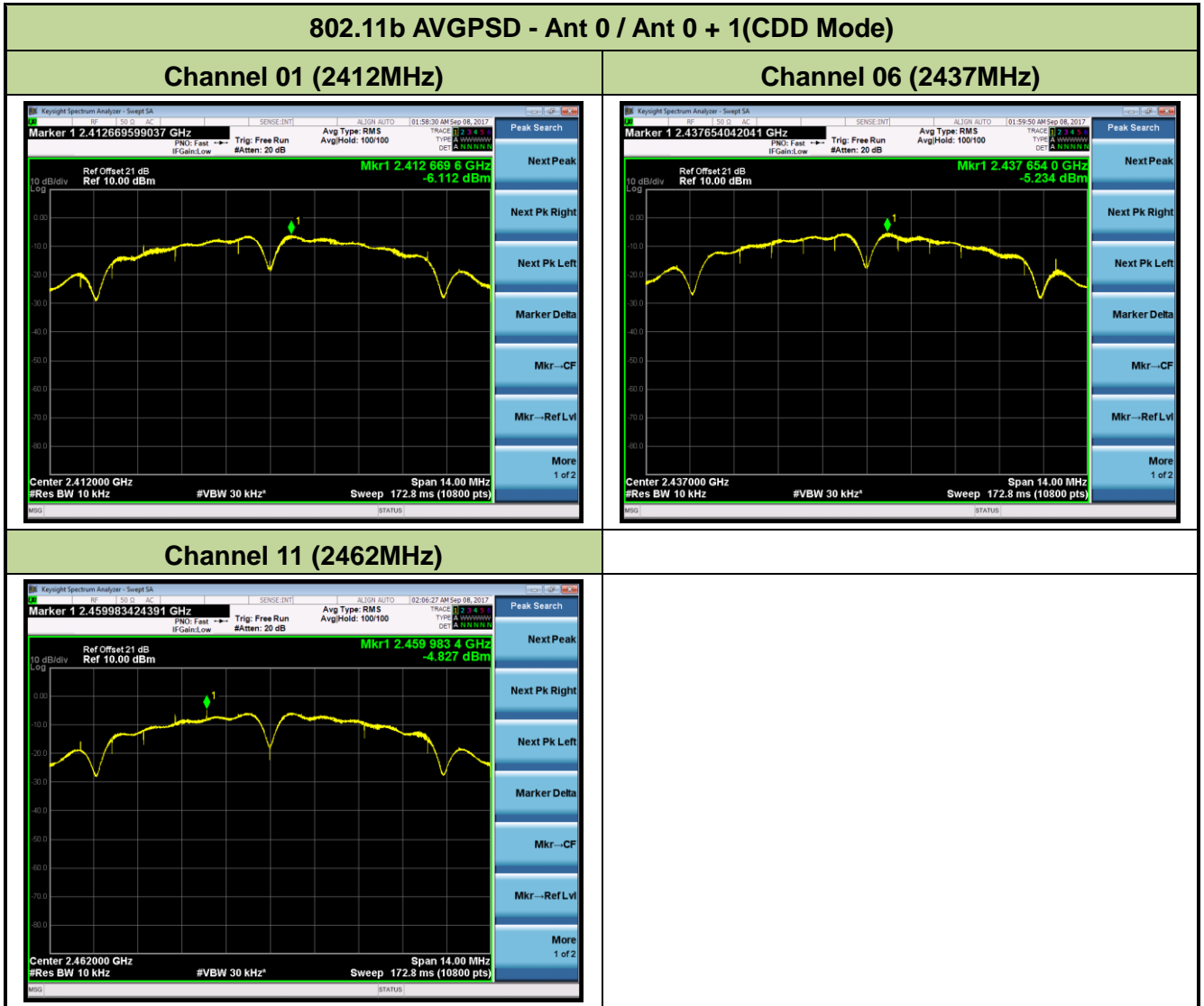
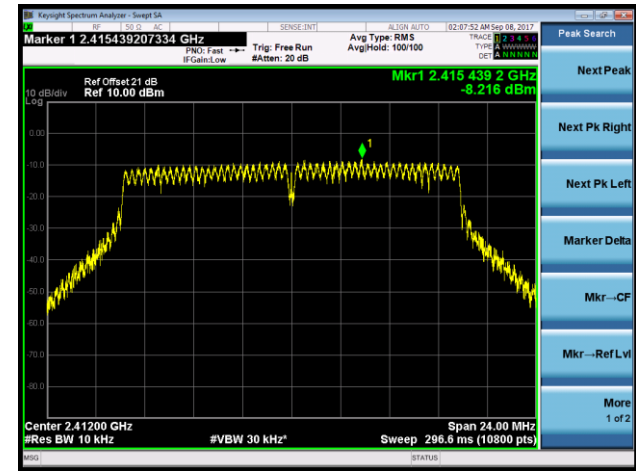


Product	ACCESS POINT	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Antenna Type	Directional Antenna (AP-ANT-48)		

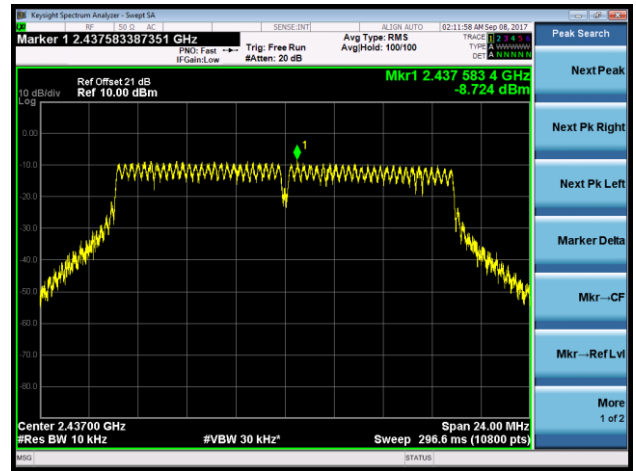


802.11g AVGPDS - Ant 0 / Ant 0 + 1(CDD Mode)

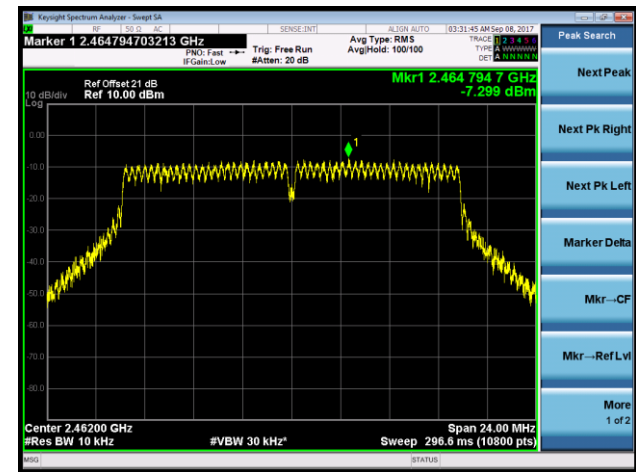
Channel 01 (2412MHz)



Channel 06 (2437MHz)

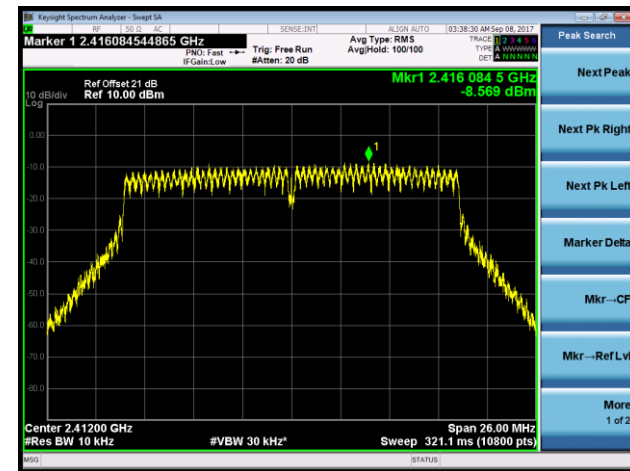


Channel 11 (2462MHz)

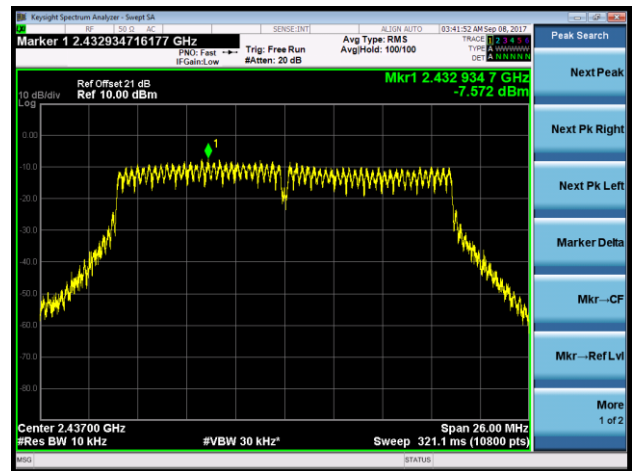


802.11n-HT20 AVGPDS - Ant 0 / Ant 0 + 1(CDD Mode)

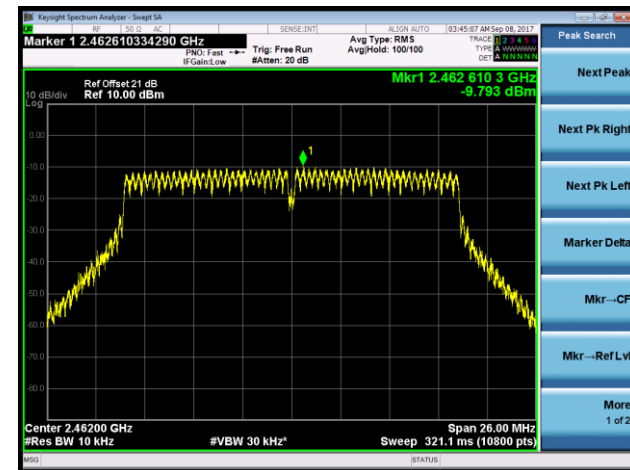
Channel 01 (2412MHz)



Channel 06 (2437MHz)

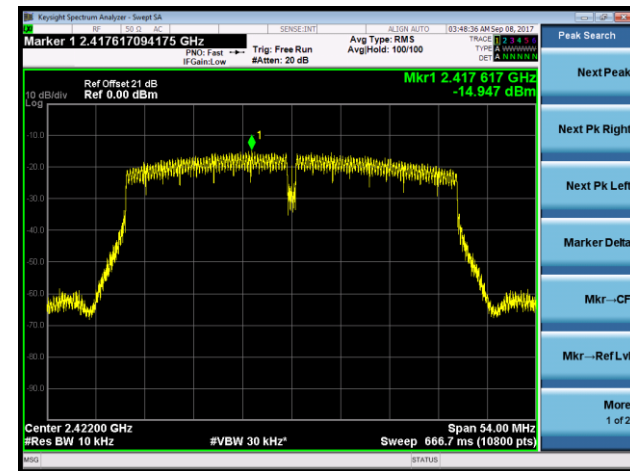


Channel 11 (2462MHz)

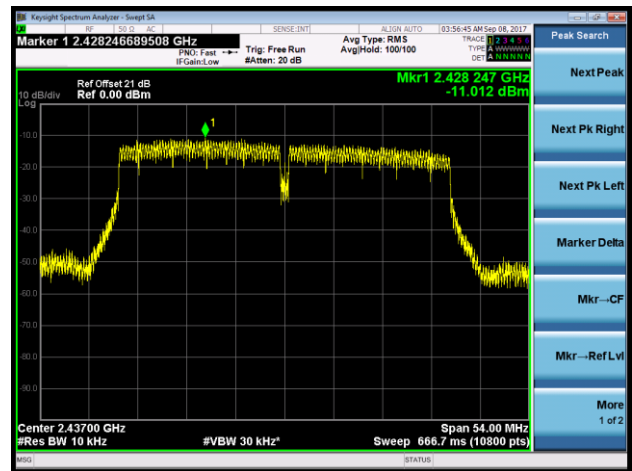


802.11n-HT40 AVGPDS - Ant 0 / Ant 0 + 1(CDD Mode)

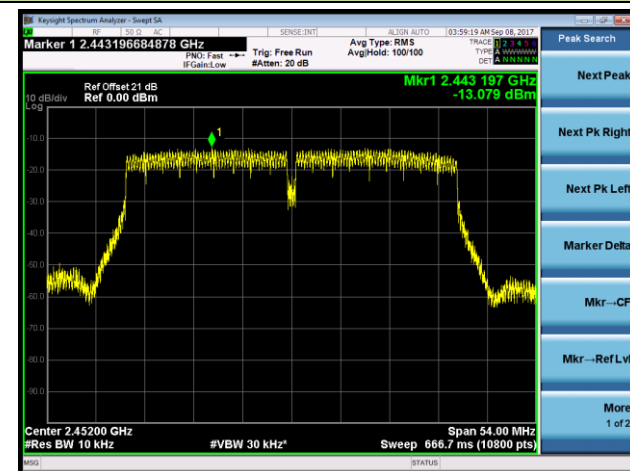
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



802.11b AVGPDS - Ant 1 / Ant 0 + 1(CDD Mode)

Channel 01 (2412MHz)



Channel 06 (2437MHz)

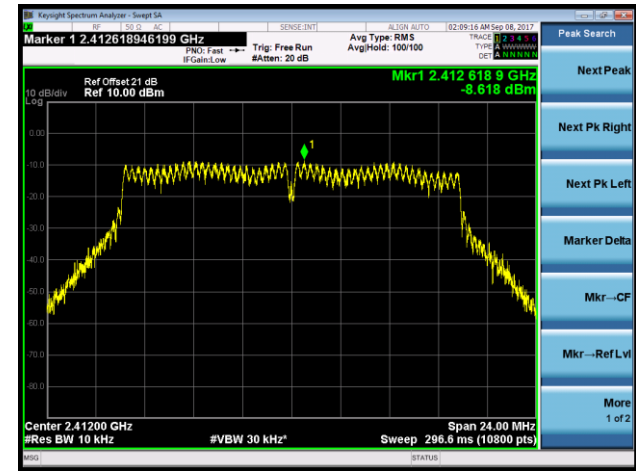


Channel 11 (2462MHz)

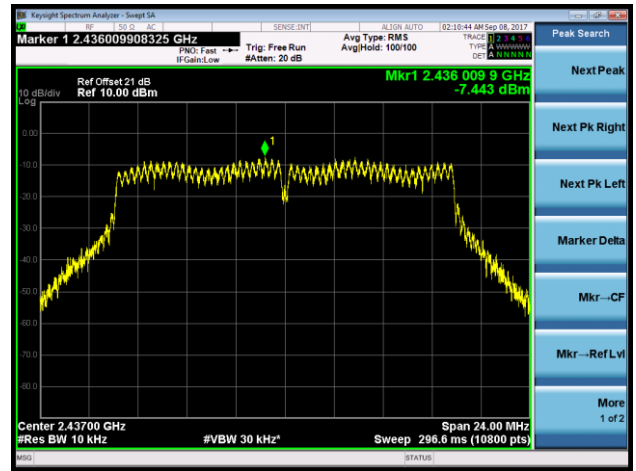


802.11g AVGPDS - Ant 1 / Ant 0 + 1(CDD Mode)

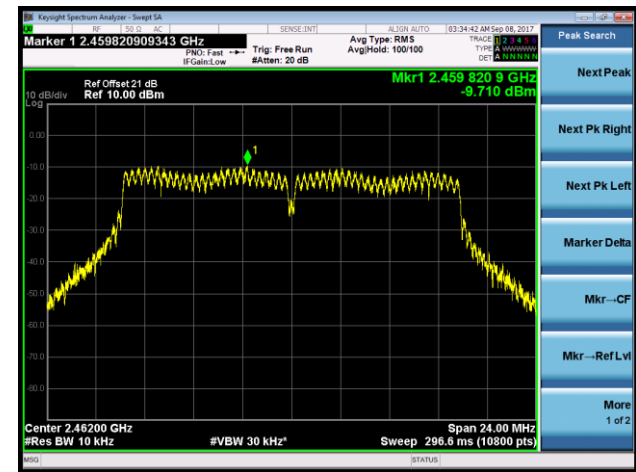
Channel 01 (2412MHz)



Channel 06 (2437MHz)

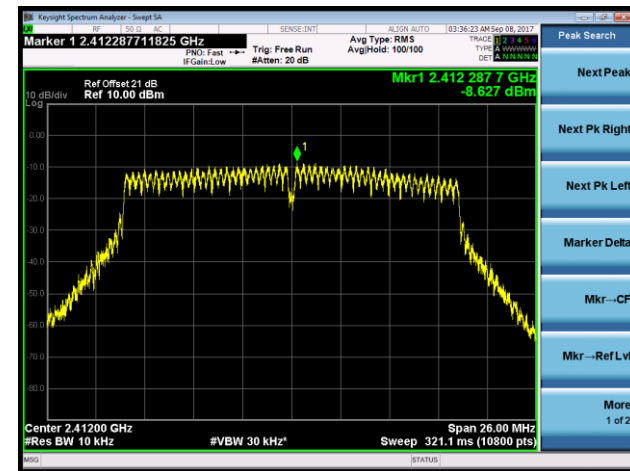


Channel 11 (2462MHz)

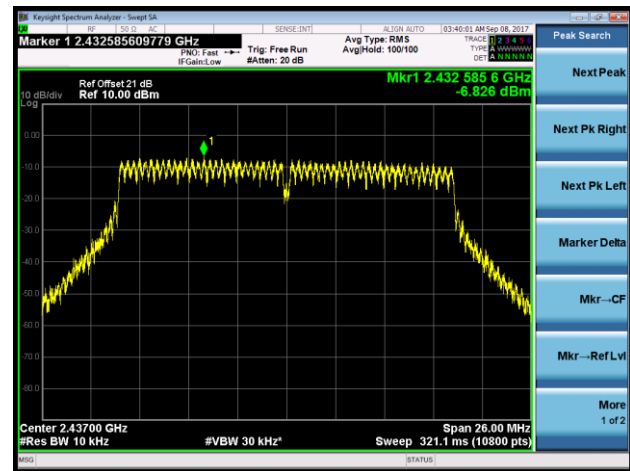


802.11n-HT20 AVGPDS - Ant 1 / Ant 0 + 1(CDD Mode)

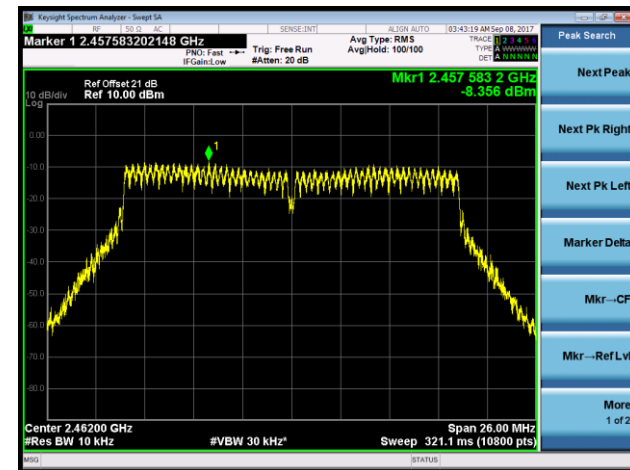
Channel 01 (2412MHz)



Channel 06 (2437MHz)

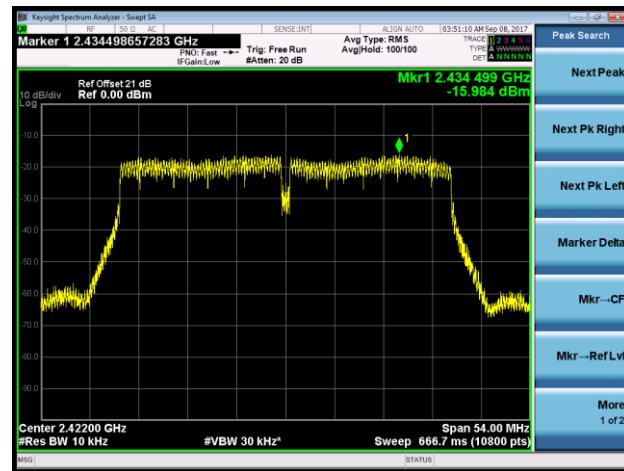


Channel 11 (2462MHz)

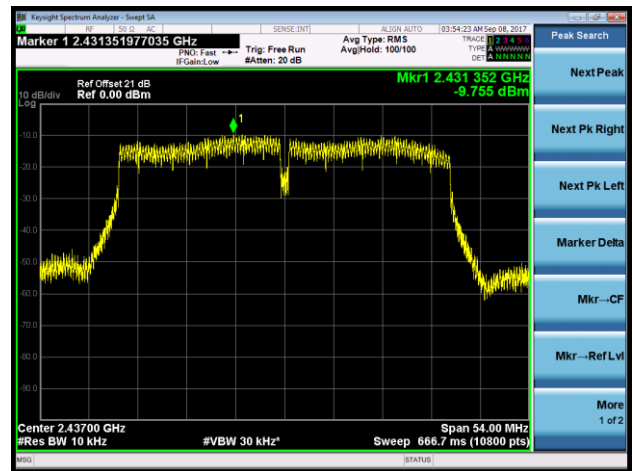


802.11n-HT40 AVGPDS - Ant 1 / Ant 0 + 1(CDD Mode)

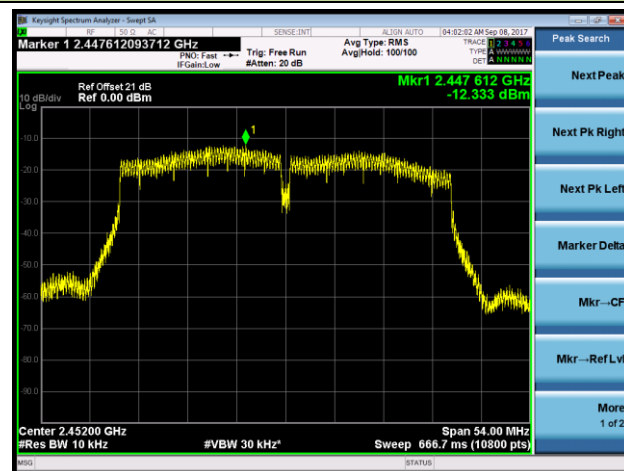
Channel 03 (2422MHz)



Channel 06 (2437MHz)



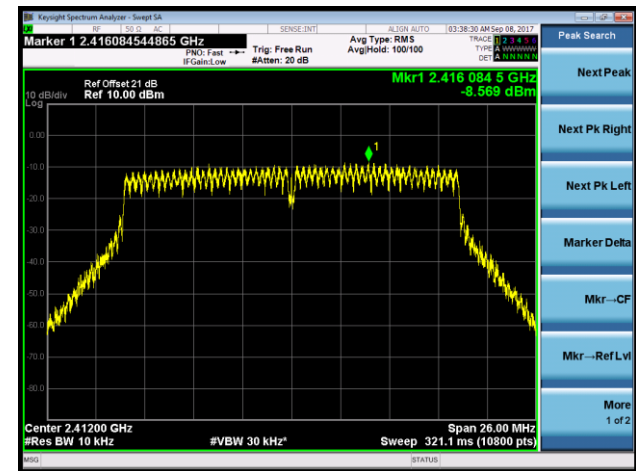
Channel 09 (2452MHz)



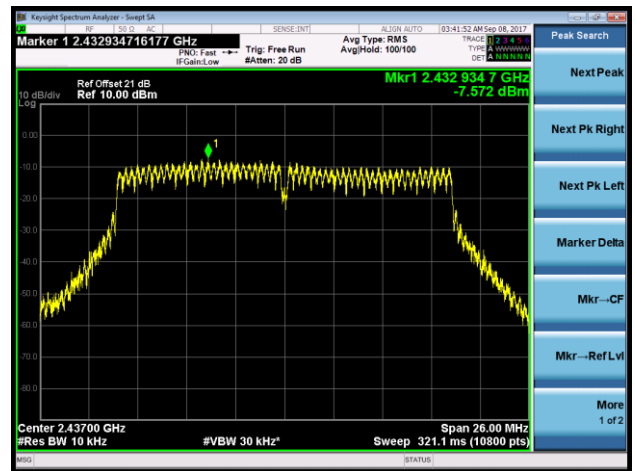


802.11n-HT20 AVGPSD - Ant 0 / Ant 0 + 1 (Beam-Forming Mode)

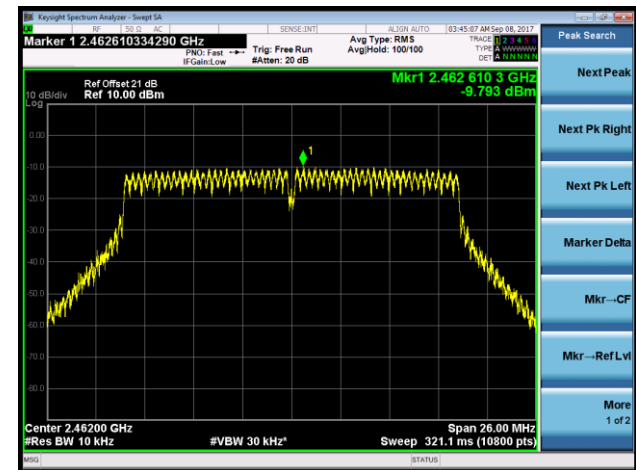
Channel 01 (2412MHz)



Channel 06 (2437MHz)

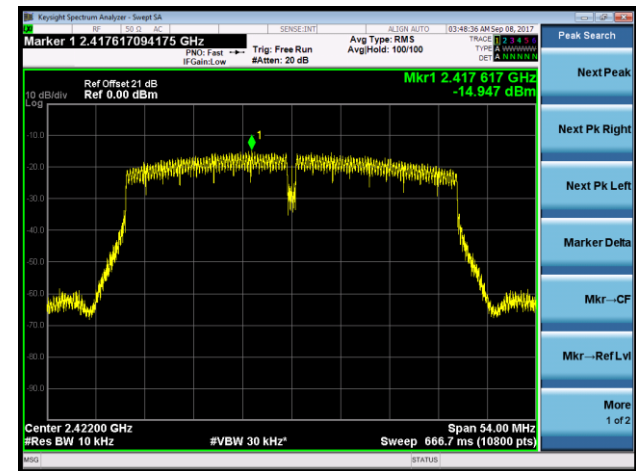


Channel 11 (2462MHz)

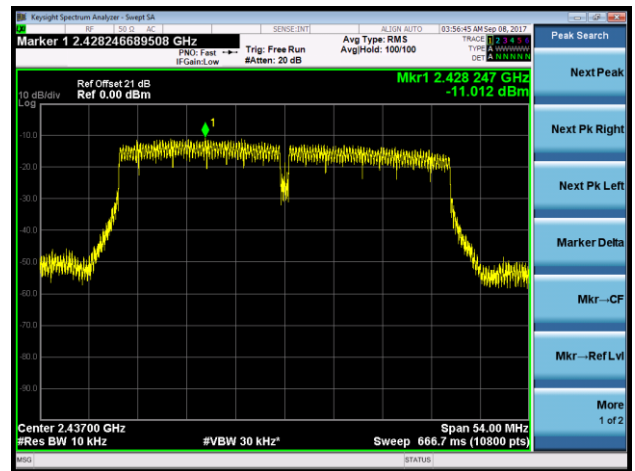


802.11n-HT40 AVGPSD - Ant 0 / Ant 0 + 1 (Beam-Forming Mode)

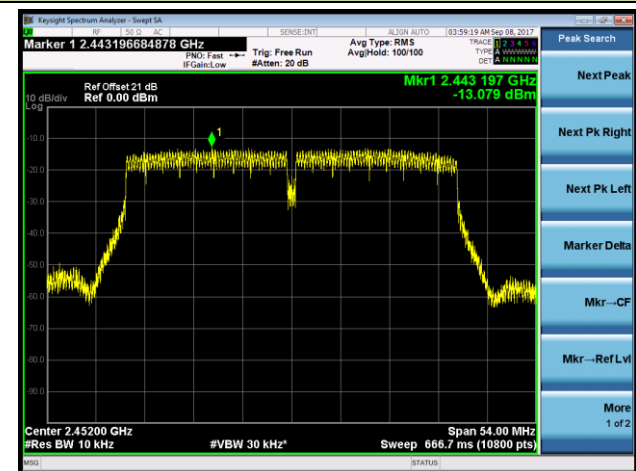
Channel 03 (2422MHz)



Channel 06 (2437MHz)

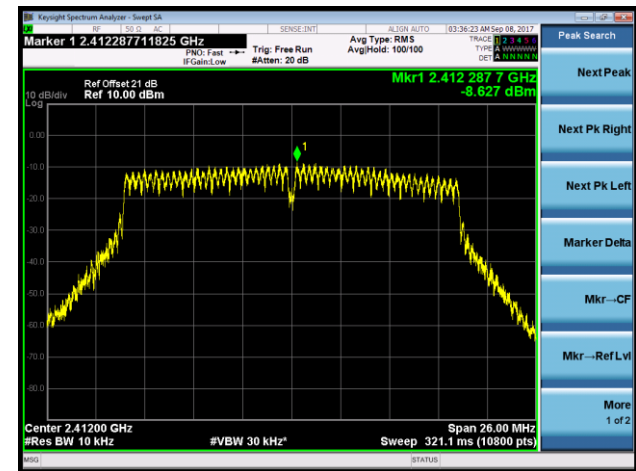


Channel 09 (2452MHz)

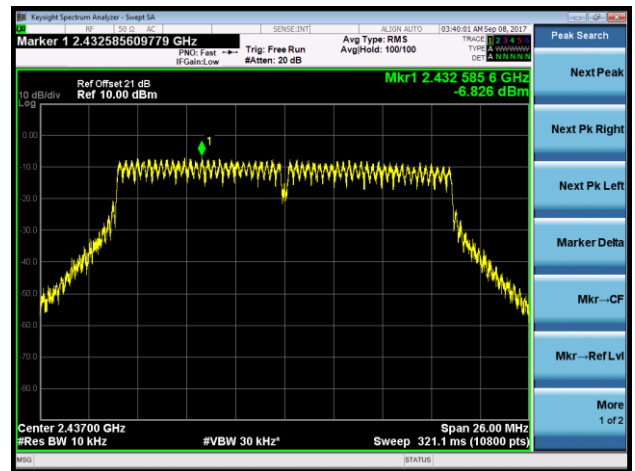


802.11n-HT20 AVGPSD - Ant 1 / Ant 0 + 1 (Beam-Forming Mode)

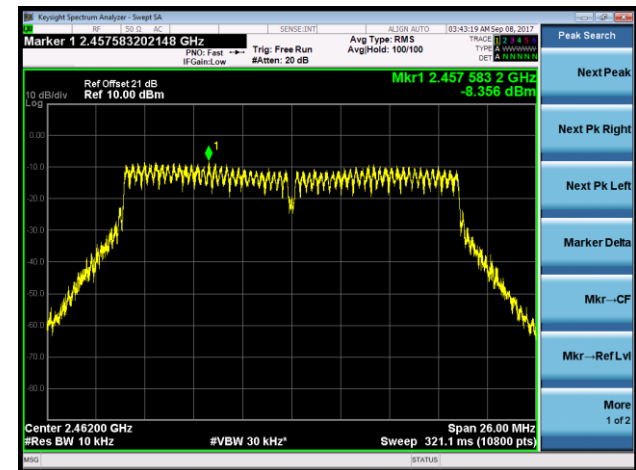
Channel 01 (2412MHz)



Channel 06 (2437MHz)

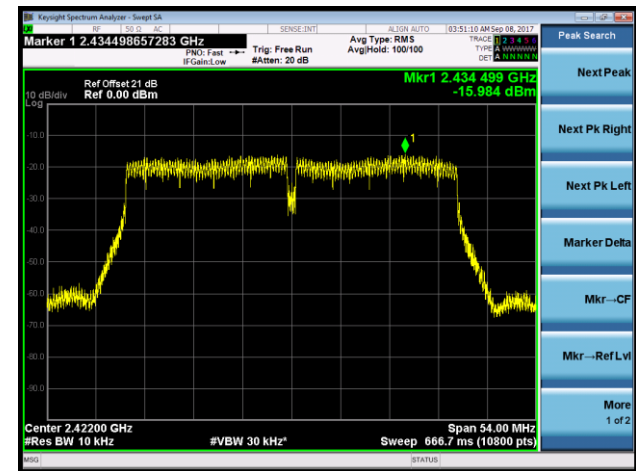


Channel 11 (2462MHz)

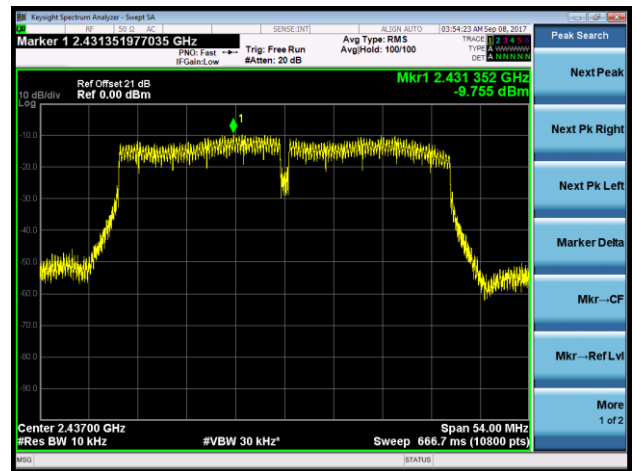


802.11n-HT40 AVGPSD - Ant 1 / Ant 0 + 1 (Beam-Forming Mode)

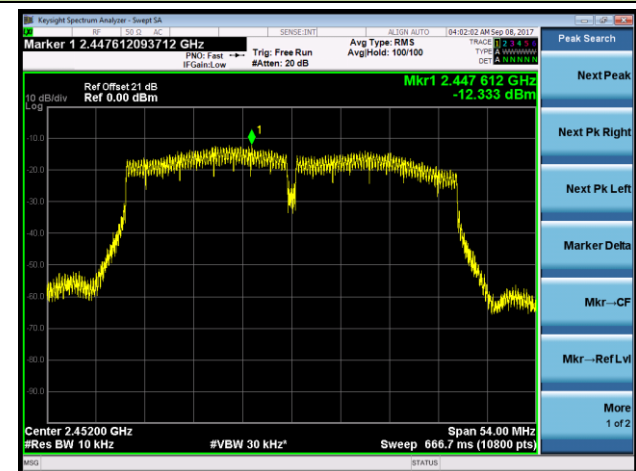
Channel 03 (2422MHz)



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 D01v04 - Section 11.2 & Section 11.3

### **7.5.3. Test Setting**

#### **Reference level measurement**

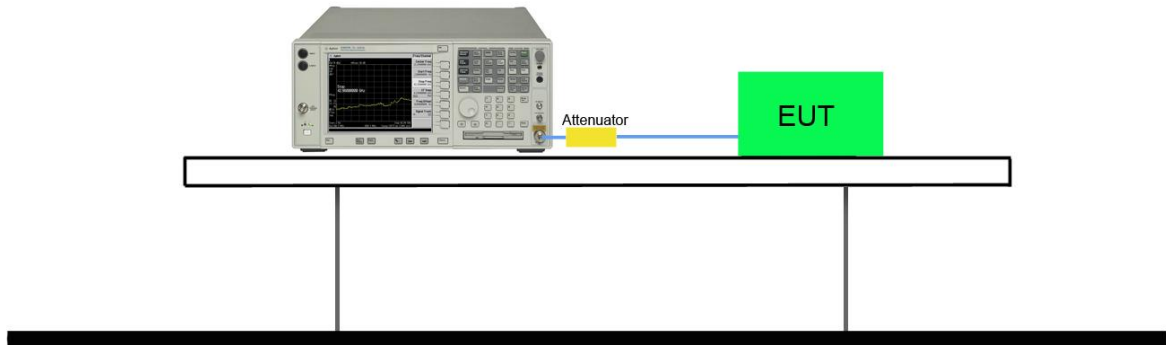
1. Set instrument center frequency to DTS channel center frequency
2. Set the span to  $\geq 1.5$  times the DTS bandwidth
3. Set the RBW = 100 kHz
4. Set the VBW  $\geq 3 \times$  RBW
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Allow trace to fully stabilize

#### **Emission level measurement**

1. Set the center frequency and span to encompass frequency range to be measured
2. RBW = 100kHz
3. VBW = 300kHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

### 7.5.4. Test Setup

#### Spectrum Analyzer



### 7.5.5. Test Result

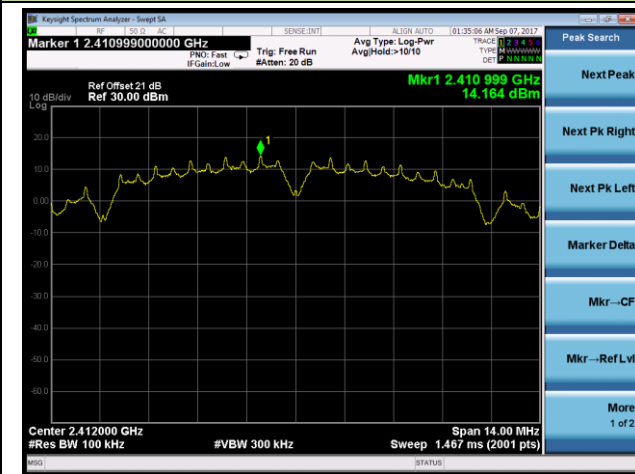
Product	ACCESS POINT	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	SR2	Test Date	2017/09/07
Test Item	Conducted Band Edge and Out-of-Band Emissions		

Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	Limit (dBc)	Result
Ant 0 / Ant 0 + 1					
802.11b	1Mbps	01	2412	30	Pass
802.11b	1Mbps	06	2437	30	Pass
802.11b	1Mbps	11	2462	30	Pass
802.11g	6Mbps	01	2412	30	Pass
802.11g	6Mbps	06	2437	30	Pass
802.11g	6Mbps	11	2462	30	Pass
802.11n-HT20	MCS0	01	2412	30	Pass
802.11n-HT20	MCS0	06	2437	30	Pass
802.11n-HT20	MCS0	11	2462	30	Pass
802.11n-HT40	MCS0	03	2422	30	Pass
802.11n-HT40	MCS0	06	2437	30	Pass
802.11n-HT40	MCS0	09	2452	30	Pass

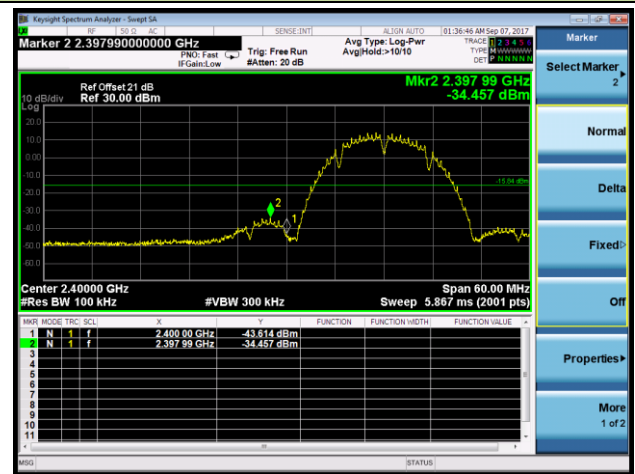
### 802.11b Out-of-Band Emissions - Ant 0 / Ant 0 + 1

#### Channel 01 (2412MHz)

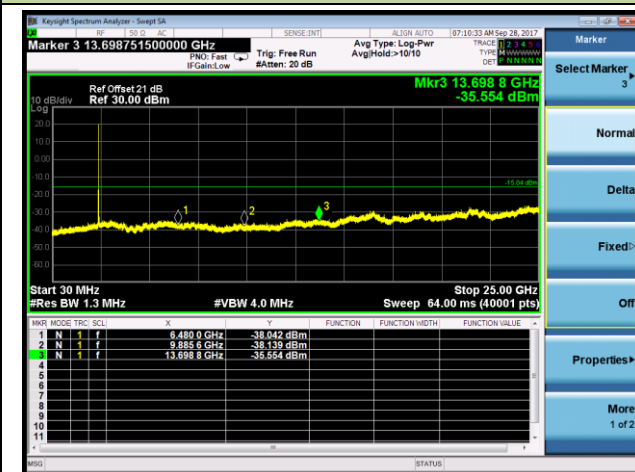
##### 100kHz PSD reference Level



##### Low Band Edge



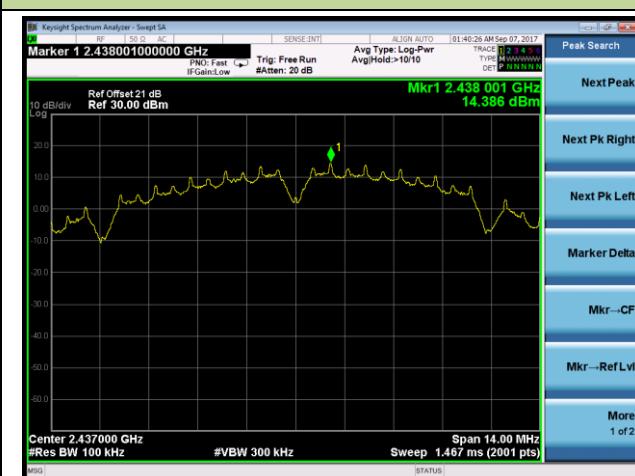
##### Spurious Emission



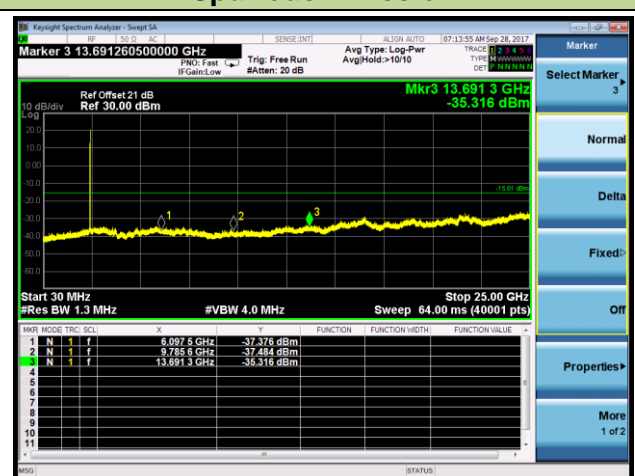
Note: The Value of the Display Line is -15.84dBm

#### Channel 06 (2437MHz)

##### 100kHz PSD reference Level



##### Spurious Emission

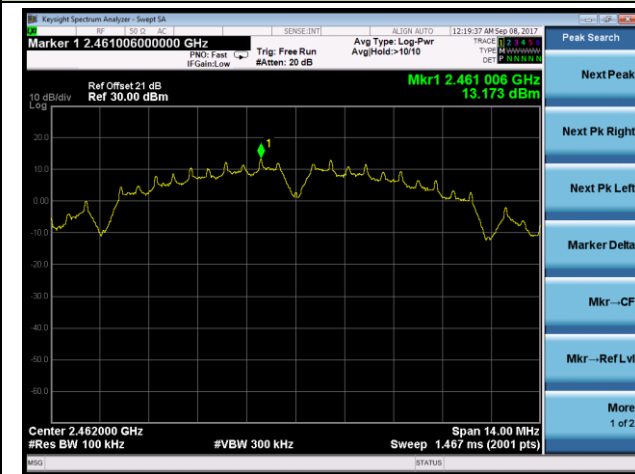


Note: The Value of the Display Line is -15.61dBm

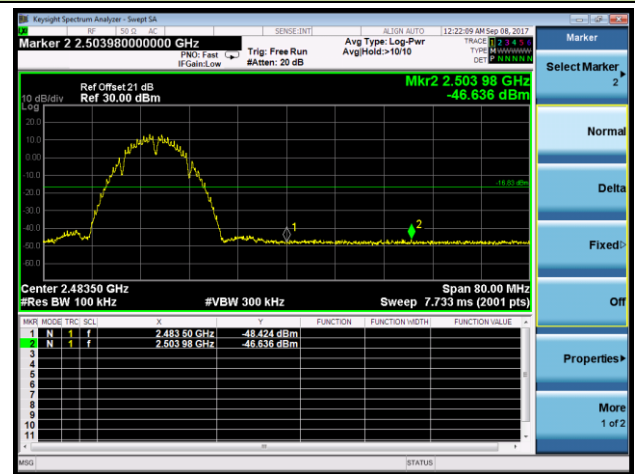


**802.11b Out-of-Band Emissions - Ant 0 / Ant 0 + 1**  
**Channel 11 (2462MHz)**

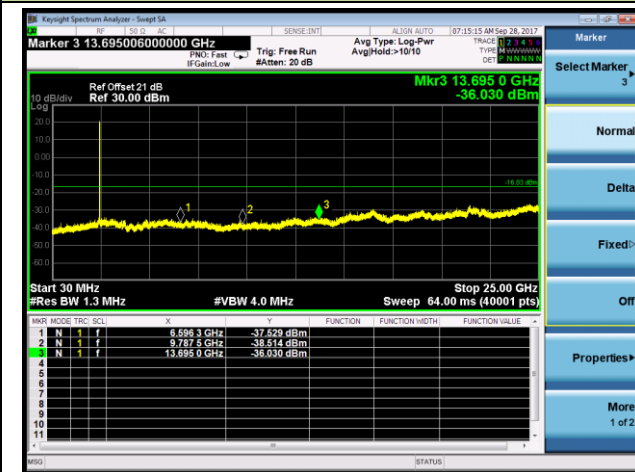
**100kHz PSD reference Level**



**High Band Edge**



**Spurious Emission**

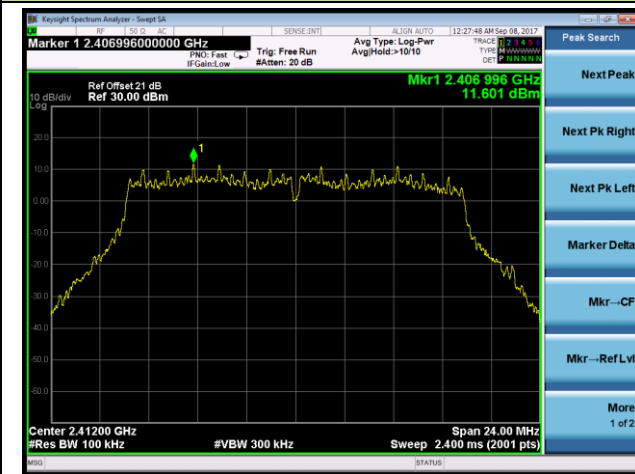


Note: The Value of the Display Line is -16.83dBm

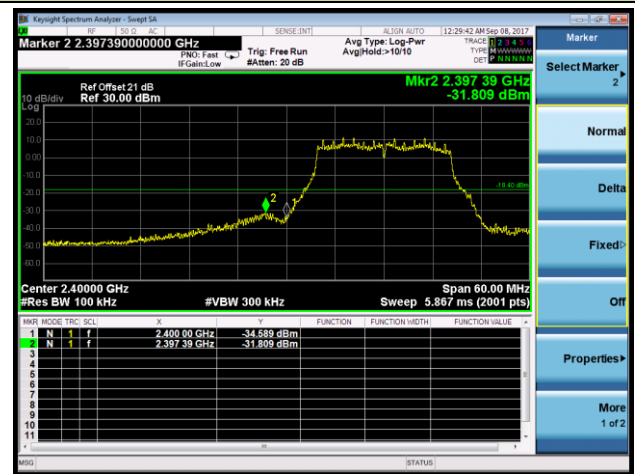
### 802.11g Out-of-Band Emissions - Ant 0 / Ant 0 + 1

#### Channel 01 (2412MHz)

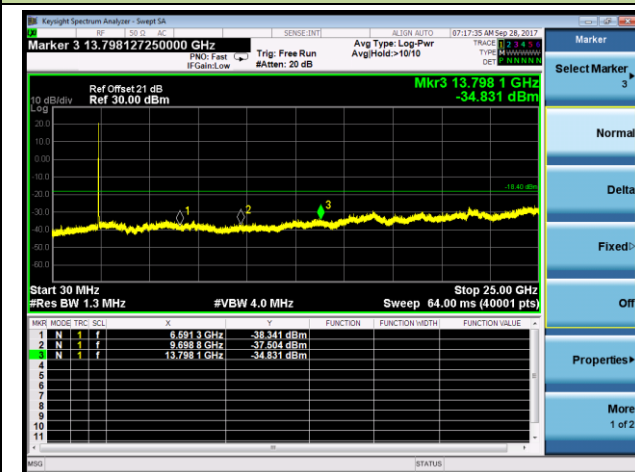
##### 100kHz PSD reference Level



##### Low Band Edge



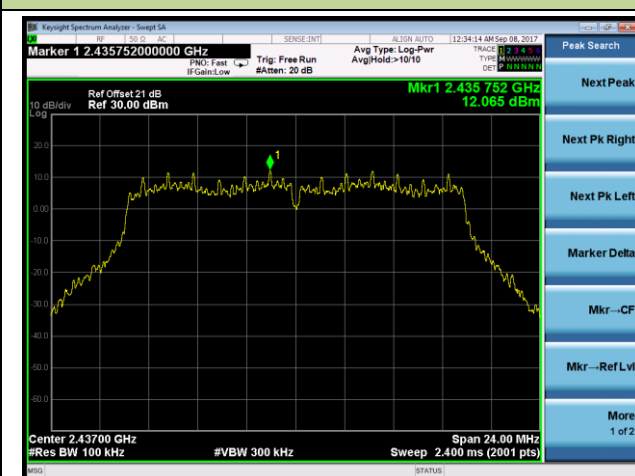
##### Spurious Emission



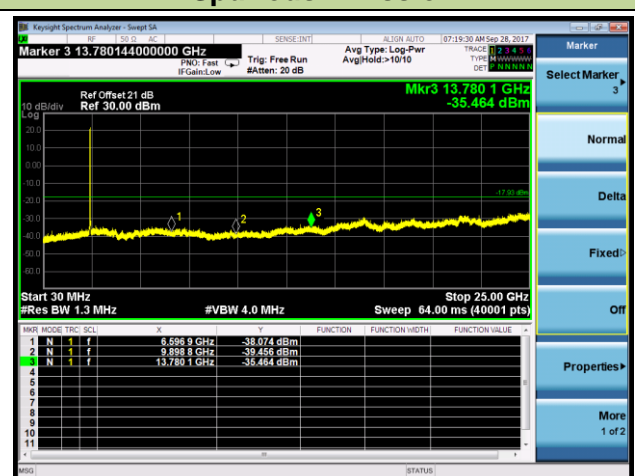
Note: The Value of the Display Line is -18.40dBm

#### Channel 06 (2437MHz)

##### 100kHz PSD reference Level



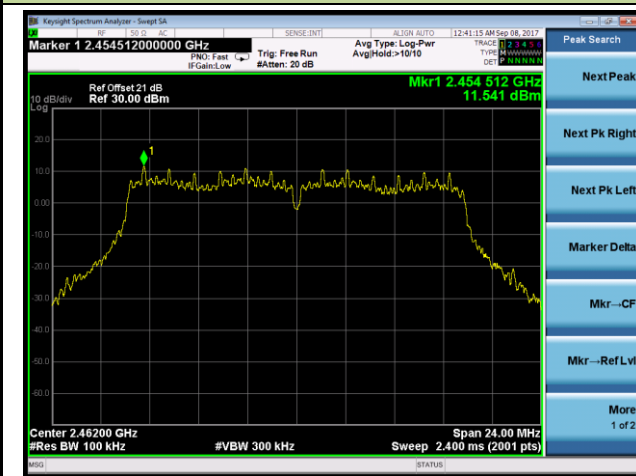
##### Spurious Emission



Note: The Value of the Display Line is -17.93dBm

**802.11g Out-of-Band Emissions - Ant 0 / Ant 0 + 1**  
**Channel 11 (2462MHz)**

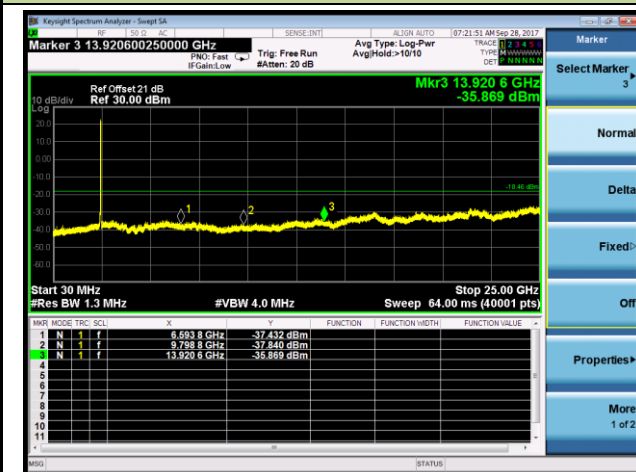
**100kHz PSD reference Level**



**High Band Edge**



**Spurious Emission**

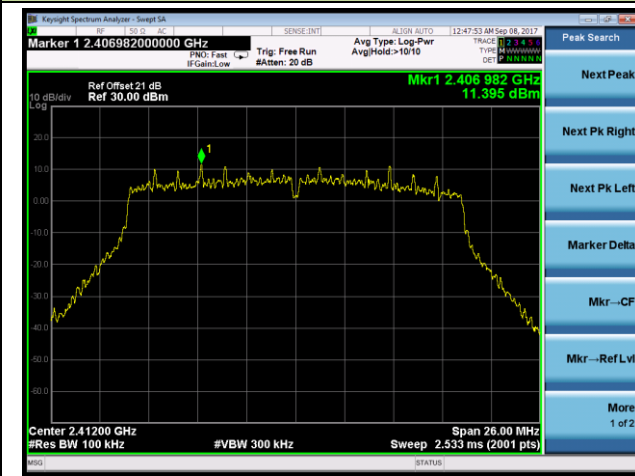


Note: The Value of the Display Line is -18.46dBm

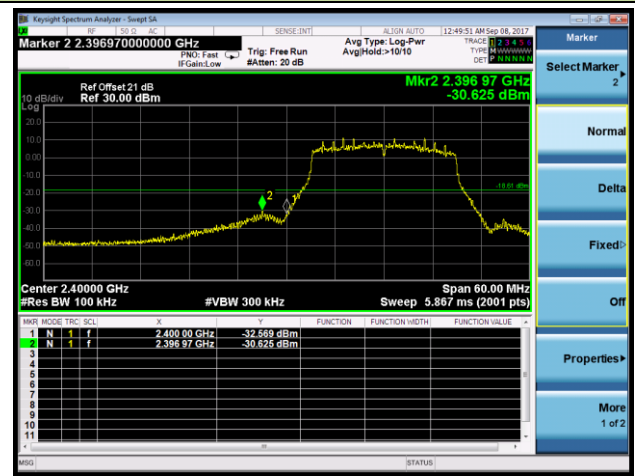
802.11n-HT20 Out-of-Band Emissions - Ant 0 / Ant 0 + 1

Channel 01 (2412MHz)

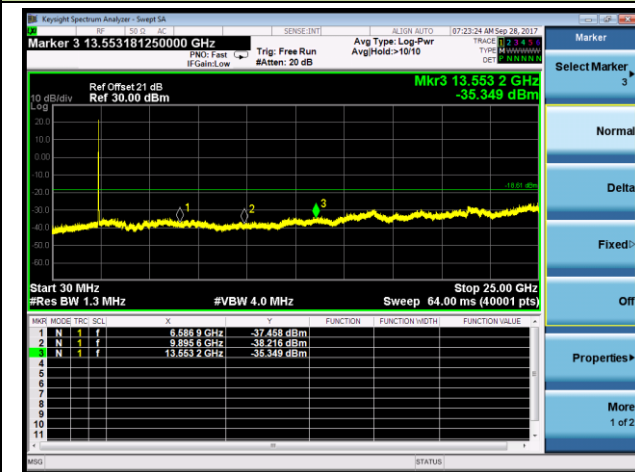
100kHz PSD reference Level



Low Band Edge



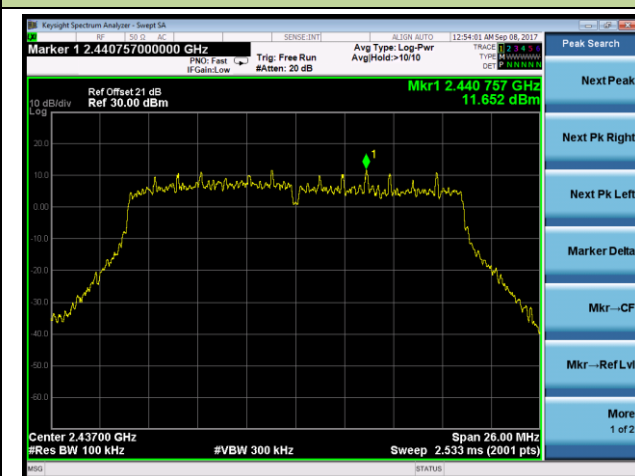
Spurious Emission



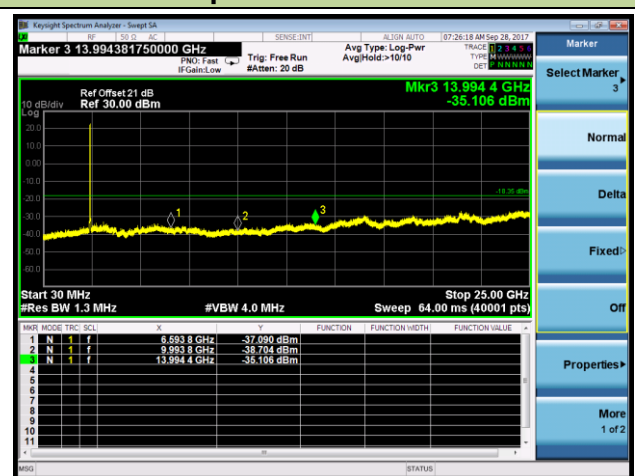
Note: The Value of the Display Line is -18.61dBm

Channel 06 (2437MHz)

100kHz PSD reference Level



Spurious Emission

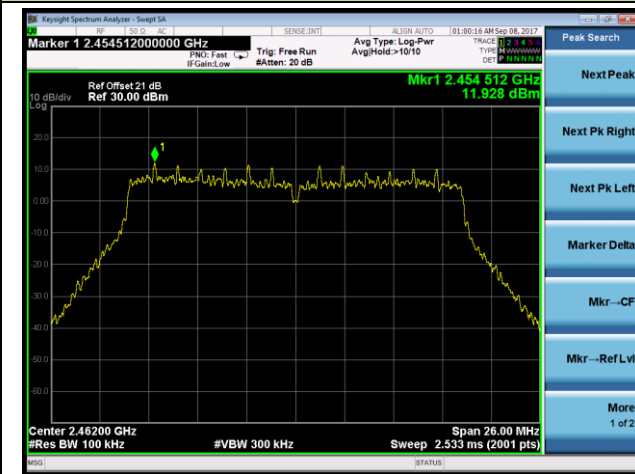


Note: The Value of the Display Line is -18.35dBm

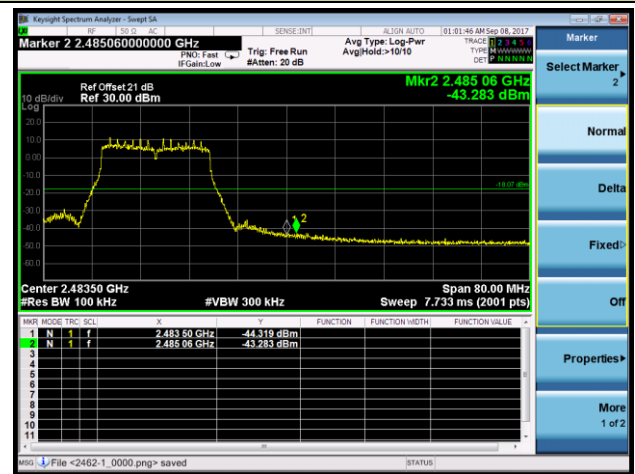
802.11n-HT20 Out-of-Band Emissions - Ant 0 / Ant 0 + 1

Channel 11 (2462MHz)

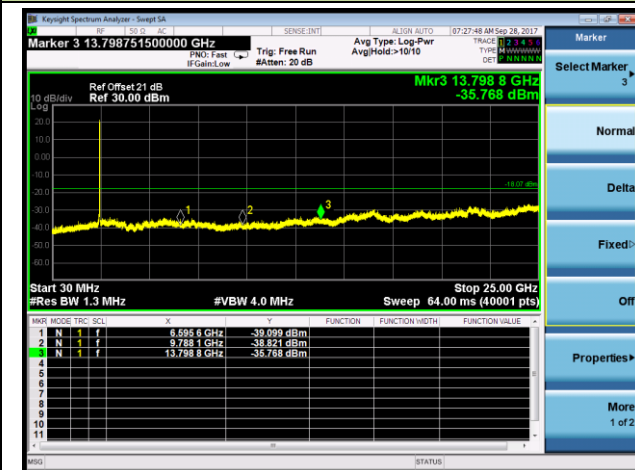
100kHz PSD reference Level



High Band Edge



Spurious Emission

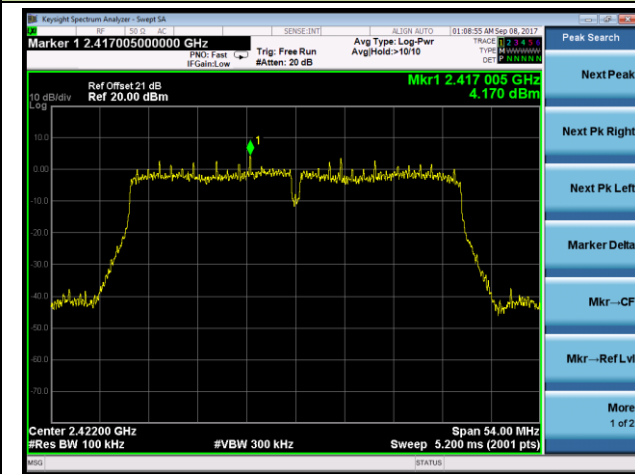


Note: The Value of the Display Line is -18.07dBm

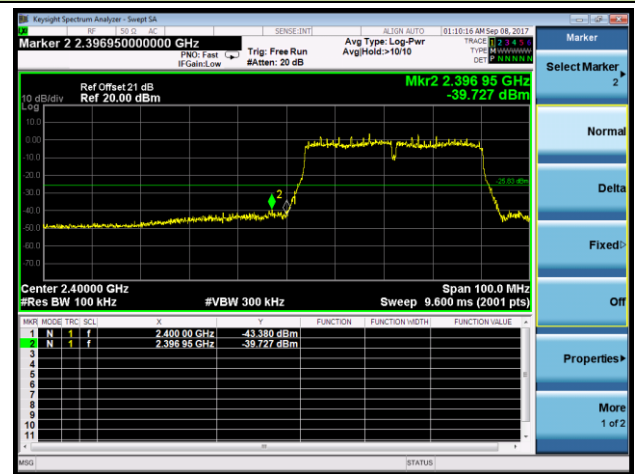
### 802.11n-HT40 Out-of-Band Emissions - Ant 0 / Ant 0 + 1

#### Channel 03 (2422MHz)

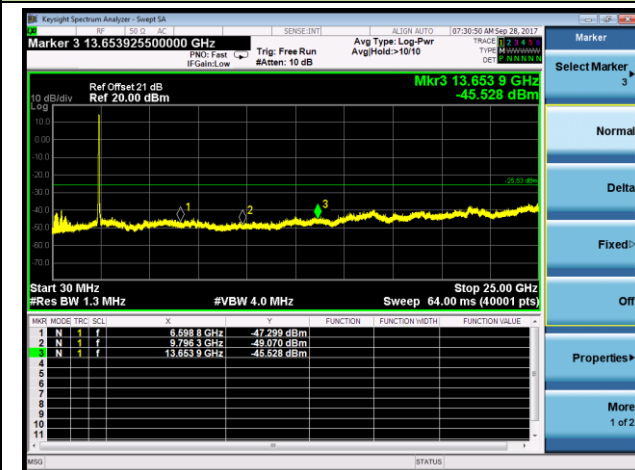
##### 100kHz PSD reference Level



##### Low Band Edge



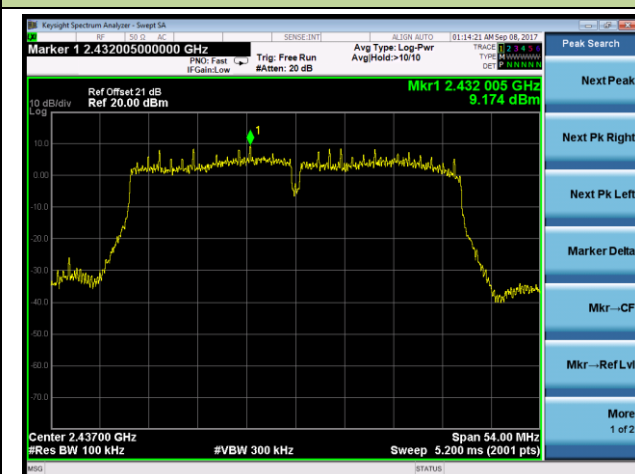
##### Spurious Emission



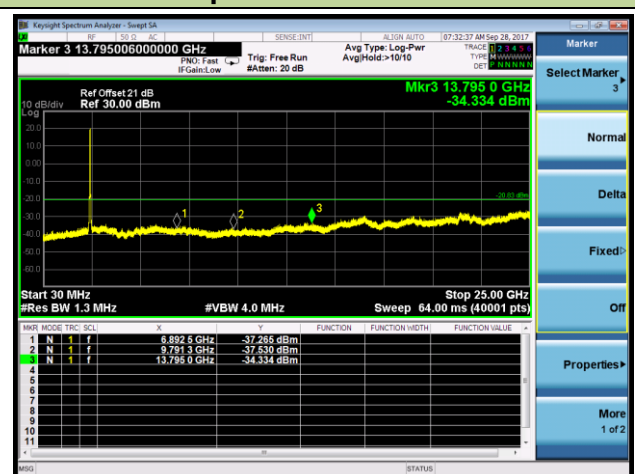
Note: The Value of the Display Line is -25.83dBm

#### Channel 06 (2437MHz)

##### 100kHz PSD reference Level



##### Spurious Emission

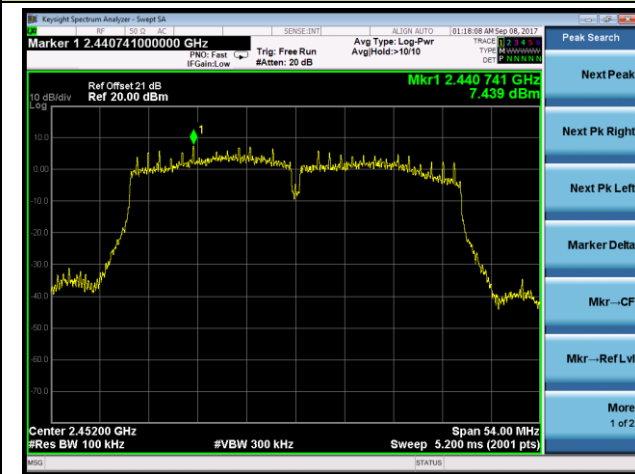


Note: The Value of the Display Line is -20.83dBm

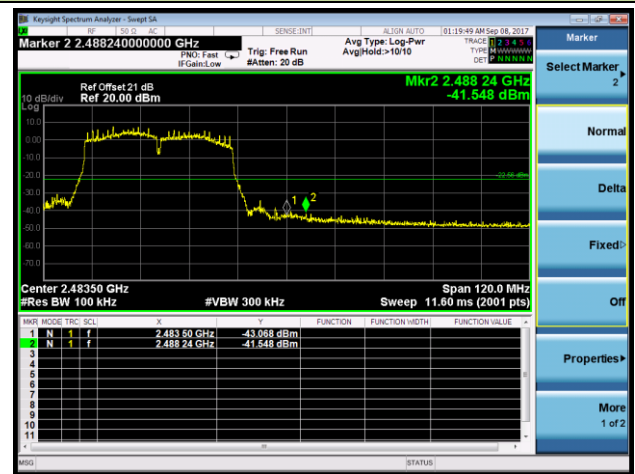
802.11n-HT40 Out-of-Band Emissions - Ant 0 / Ant 0 + 1

Channel 09 (2452MHz)

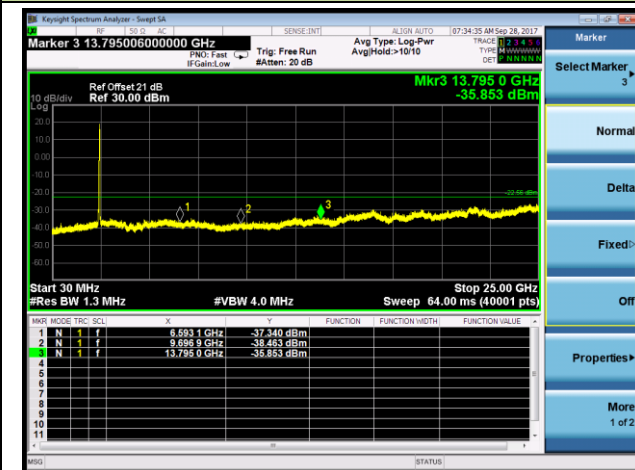
100kHz PSD reference Level



High Band Edge



Spurious Emission



Note: The Value of the Display Line is -22.66dBm

## 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 [uV/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

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

### 7.6.3. Test Setting

**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



**Quasi-Peak Measurements below 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as specified in Table 1
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

**Peak Measurements above 1GHz**

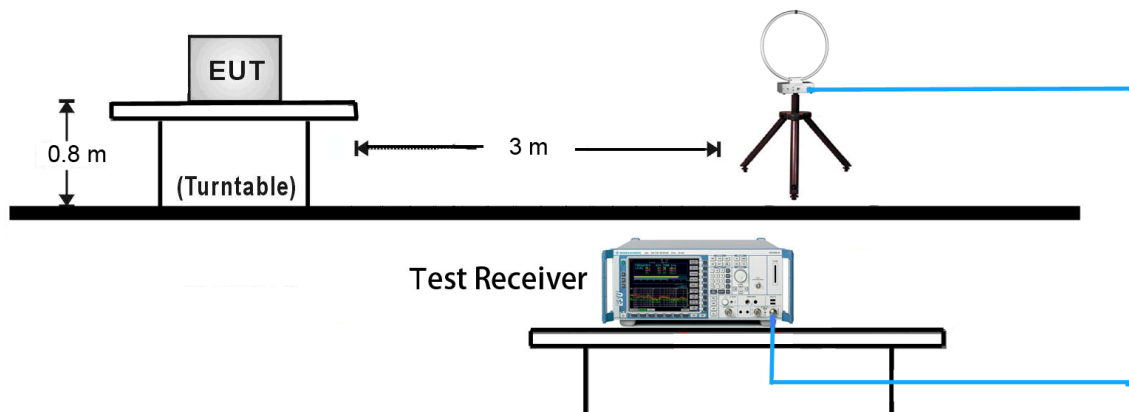
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

**Average Measurements above 1GHz (Method VB)**

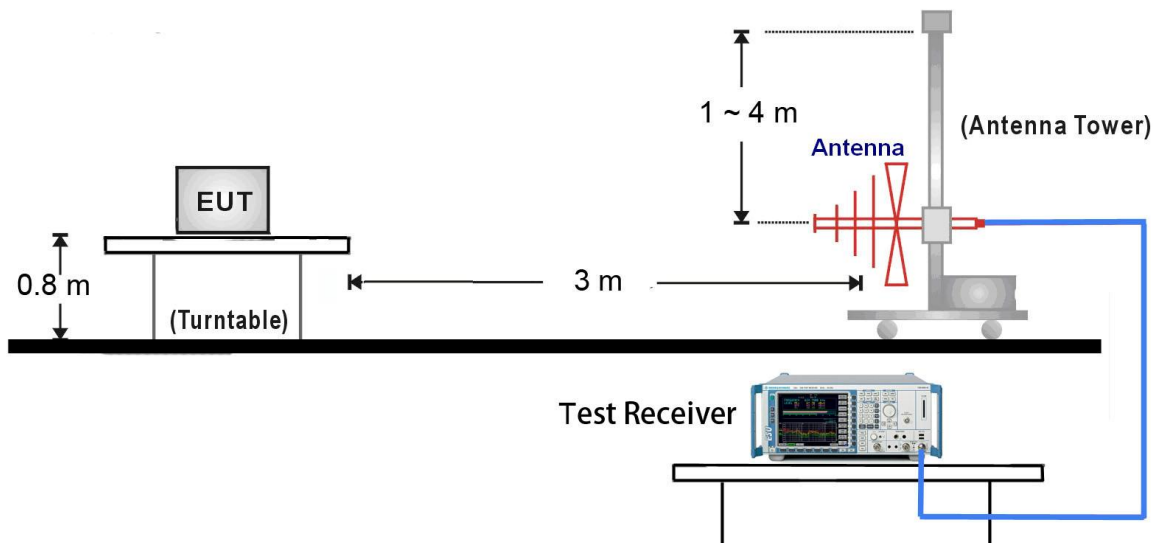
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle  $\geq 98\%$ , set VBW = 10 Hz.  
If the EUT duty cycle is  $< 98\%$ , set VBW  $\geq 1/T$ . T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

### 7.6.4. Test Setup

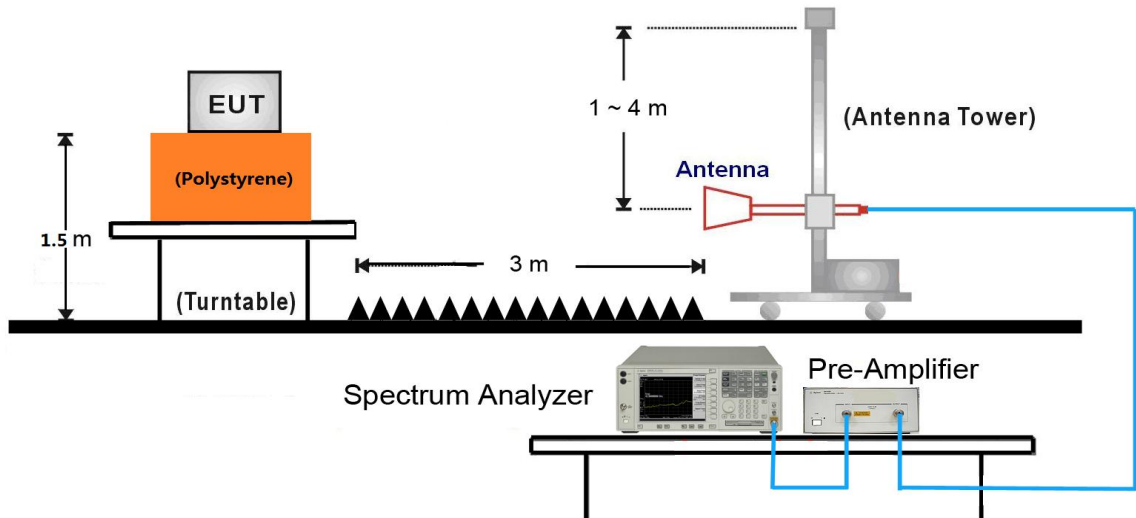
#### 9kHz ~ 30MHz Test Setup:



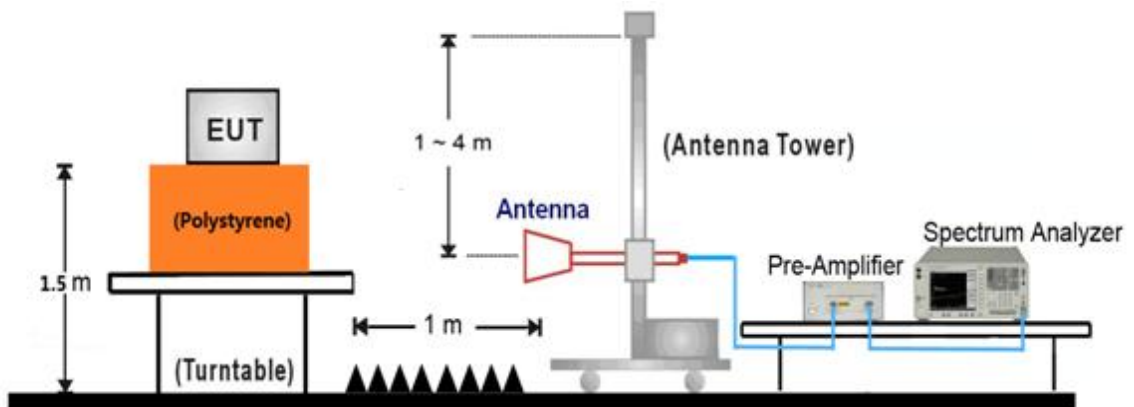
#### 30MHz ~ 1GHz Test Setup:



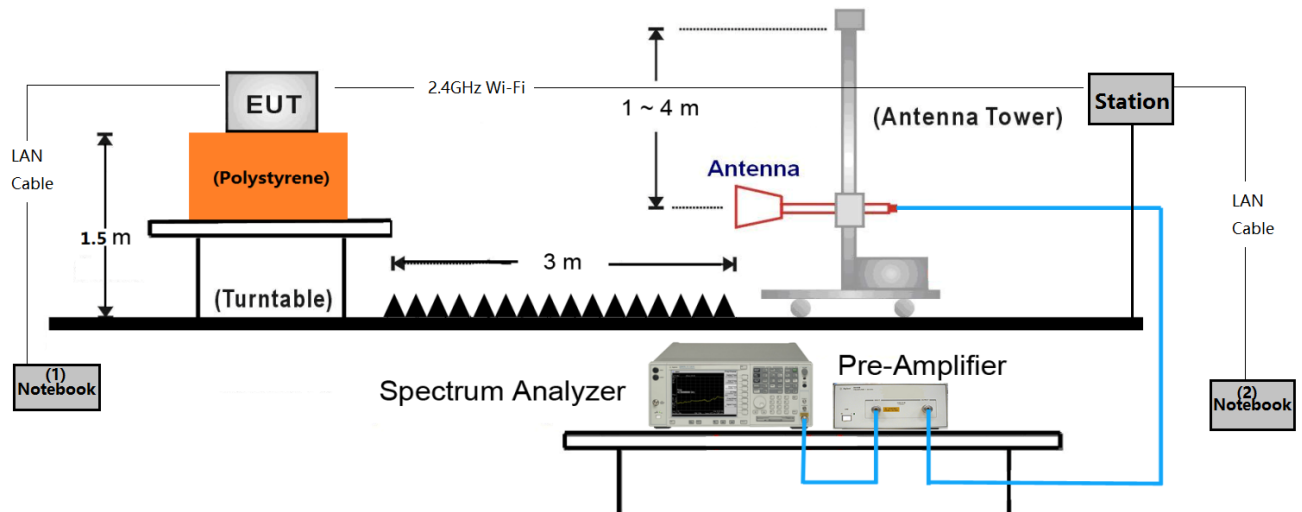
1GHz ~ 18GHz Test Setup:



18GHz ~25GHz Test Setup:



## Additional Beam-Forming Mode Test Setup (Apply to all BF radiated emission test frequency range)



Make the EUT connect with the station by 2.4GHz wireless.

Input some commands in the notebook (1) to open the EUT Beam Forming function, and setup the related test channel & data rate & power setting.

Make the notebook (1) ping with notebook (2) using the “Iperf” software that can produce one bigger duty cycle waveform.

Test Mode	Duty Cycle (%)	T = Transmission Duration (ms)
802.11n-HT20	94.27	2.007
802.11n-HT40	93.99	1.737

**7.6.5. Test Result**

Product	ACCESS POINT- Omni Antenna (AP-ANT-40)	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/09/02
Test Mode:	802.11b - Ant 0 + 1 (CDD Mode)	Test Channel:	01
Remark:	1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands. So the margin was calculated using the average limit for emissions fall within the restricted bands. 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
	7485.5	30.8	12.8	43.6	54.0	-10.4	Peak	Horizontal
	8174.0	32.9	12.0	44.9	54.0	-9.1	Peak	Horizontal
*	10035.5	29.7	15.5	45.2	82.8	-37.6	Peak	Horizontal
*	12747.0	27.6	18.9	46.5	82.8	-36.3	Peak	Horizontal
	7460.0	31.2	12.8	44.0	54.0	-10.0	Peak	Vertical
	8429.0	31.8	12.4	44.2	54.0	-9.8	Peak	Vertical
*	9848.5	30.4	16.1	46.5	82.8	-36.3	Peak	Vertical
*	12815.0	27.4	19.1	46.5	82.8	-36.3	Peak	Vertical

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

Product	ACCESS POINT- Omni Antenna (AP-ANT-40)	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/09/02
Test Mode:	802.11b - Ant 0 + 1 (CDD Mode)	Test Channel:	06
Remark:	<p>1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands. So the margin was calculated using the average limit for emissions fall within the restricted bands.</p> <p>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.</p>		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7443.0	30.6	12.7	43.3	54.0	-10.7	Peak	Horizontal
	8233.5	31.2	11.9	43.1	54.0	-10.9	Peak	Horizontal
*	9942.0	29.7	15.3	45.0	86.4	-41.4	Peak	Horizontal
*	12815.0	27.4	19.1	46.5	86.4	-39.9	Peak	Horizontal
	7443.0	30.6	12.7	43.3	54.0	-10.7	Peak	Vertical
	8463.0	30.9	12.6	43.5	54.0	-10.5	Peak	Vertical
*	10112.0	30.5	15.8	46.3	86.4	-40.1	Peak	Vertical
*	12849.0	27.3	19.2	46.5	86.4	-39.9	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (116.4dBμV/m) or 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)

Product	ACCESS POINT- Omni Antenna (AP-ANT-40)	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/09/02
Test Mode:	802.11b - Ant 0 + 1 (CDD Mode)	Test Channel:	11
Remark:	<p>1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands. So the margin was calculated using the average limit for emissions fall within the restricted bands.</p> <p>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.</p>		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7400.5	29.8	12.6	42.4	54.0	-11.6	Peak	Horizontal
	8310.0	30.8	11.9	42.7	54.0	-11.3	Peak	Horizontal
*	10095.0	30.3	15.7	46.0	88.2	-42.2	Peak	Horizontal
*	12849.0	27.3	19.2	46.5	88.2	-41.7	Peak	Horizontal
	7400.5	29.8	12.6	42.4	54.0	-11.6	Peak	Vertical
	8165.5	30.5	12.1	42.6	54.0	-11.4	Peak	Vertical
*	9857.0	29.6	16.2	45.8	88.2	-42.4	Peak	Vertical
*	12747.0	27.5	18.9	46.4	88.2	-41.8	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (118.2dBμV/m) or 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)

Product	ACCESS POINT- Omni Antenna (AP-ANT-40)	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/09/02
Test Mode:	802.11g - Ant 0 + 1 (CDD Mode)	Test Channel:	01
Remark:	1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands. So the margin was calculated using the average limit for emissions fall within the restricted bands. 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
	7324.0	31.7	12.4	44.1	54.0	-9.9	Peak	Horizontal
	8344.0	32.1	12.0	44.1	54.0	-9.9	Peak	Horizontal
*	9933.5	30.4	15.3	45.7	88.8	-43.1	Peak	Horizontal
*	12747.0	27.5	18.9	46.4	88.8	-42.4	Peak	Horizontal
	7324.0	31.7	12.4	44.1	54.0	-9.9	Peak	Vertical
	8310.0	30.6	11.9	42.5	54.0	-11.5	Peak	Vertical
*	9976.0	30.8	15.3	46.1	88.8	-42.7	Peak	Vertical
*	12721.5	25.7	18.8	44.5	88.8	-44.3	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (118.8dBμV/m) or 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)



Product	ACCESS POINT- Omni Antenna (AP-ANT-40)	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/09/02
Test Mode:	802.11g - Ant 0 + 1 (CDD Mode)	Test Channel:	06
Remark:	<p>1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands. So the margin was calculated using the average limit for emissions fall within the restricted bands.</p> <p>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.</p>		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7519.5	30.9	12.8	43.7	54.0	-10.3	Peak	Horizontal
	8242.0	32.6	11.9	44.5	54.0	-9.5	Peak	Horizontal
*	9950.5	29.9	15.3	45.2	89.1	-43.9	Peak	Horizontal
*	12721.5	25.7	18.8	44.5	89.1	-44.6	Peak	Horizontal
	7519.5	30.9	12.8	43.7	54.0	-10.3	Peak	Vertical
	8310.0	32.1	11.9	44.0	54.0	-10.0	Peak	Vertical
*	9882.5	29.5	15.6	45.1	89.1	-44.0	Peak	Vertical
*	12900.0	27.2	19.5	46.7	89.1	-42.4	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (119.1BμV/m) or 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)

Product	ACCESS POINT- Omni Antenna (AP-ANT-40)	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/09/02
Test Mode:	802.11g - Ant 0 + 1 (CDD Mode)	Test Channel:	11
Remark:	1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands. So the margin was calculated using the average limit for emissions fall within the restricted bands. 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
	7528.0	30.8	12.8	43.6	54.0	-10.4	Peak	Horizontal
	8403.5	31.5	12.2	43.7	54.0	-10.3	Peak	Horizontal
*	10120.5	29.6	15.8	45.4	89.3	-43.9	Peak	Horizontal
*	12900.0	27.2	19.5	46.7	89.3	-42.6	Peak	Horizontal
	7528.0	30.8	12.8	43.6	54.0	-10.4	Peak	Vertical
	8352.5	30.0	12.0	42.0	54.0	-12.0	Peak	Vertical
*	9942.0	28.4	15.3	43.7	89.3	-45.6	Peak	Vertical
*	12755.5	27.1	18.9	46.0	89.3	-43.3	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (119.3dBµV/m) or 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)

Product	ACCESS POINT- Omni Antenna (AP-ANT-40)	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/09/02
Test Mode:	802.11n-HT20 - Ant 0 + 1 (CDD Mode)	Test Channel:	01
Remark:	1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands. So the margin was calculated using the average limit for emissions fall within the restricted bands. 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
	7366.5	29.6	12.5	42.1	54.0	-11.9	Peak	Horizontal
	8242.0	32.1	11.9	44.0	54.0	-10.0	Peak	Horizontal
*	10129.0	30.4	15.9	46.3	89.8	-43.5	Peak	Horizontal
*	12755.5	27.1	18.9	46.0	89.8	-43.8	Peak	Horizontal
	7366.5	29.6	12.5	42.1	54.0	-11.9	Peak	Vertical
	8386.5	29.9	12.1	42.0	54.0	-12.0	Peak	Vertical
*	9976.0	31.1	15.3	46.4	89.8	-43.4	Peak	Vertical
*	12891.5	26.1	19.4	45.5	89.8	-44.3	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (119.8dBμV/m) or 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)

Product	ACCESS POINT- Omni Antenna (AP-ANT-40)	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/09/02
Test Mode:	802.11n-HT20 - Ant 0 + 1 (CDD Mode)	Test Channel:	06
Remark:	<p>1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands. So the margin was calculated using the average limit for emissions fall within the restricted bands.</p> <p>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.</p>		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7536.5	29.5	12.8	42.3	54.0	-11.7	Peak	Horizontal
	8378.0	32.9	12.1	45.0	54.0	-9.0	Peak	Horizontal
*	10052.5	30.9	15.5	46.4	89.7	-43.3	Peak	Horizontal
*	12891.5	26.1	19.4	45.5	89.7	-44.2	Peak	Horizontal
	7536.5	29.5	12.8	42.3	54.0	-11.7	Peak	Vertical
	8276.0	30.4	11.9	42.3	54.0	-11.7	Peak	Vertical
*	9806.0	30.6	15.2	45.8	89.7	-43.9	Peak	Vertical
*	12883.0	26.4	19.4	45.8	89.7	-43.9	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (119.7dBμV/m) or 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)

Product	ACCESS POINT- Omni Antenna (AP-ANT-40)	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/09/02
Test Mode:	802.11n-HT20 - Ant 0 + 1 (CDD Mode)	Test Channel:	11
Remark:	<p>1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands. So the margin was calculated using the average limit for emissions fall within the restricted bands.</p> <p>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.</p>		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
	7519.5	31.7	12.8	44.5	54.0	-9.5	Peak	Horizontal
	8318.5	31.7	11.9	43.6	54.0	-10.4	Peak	Horizontal
*	10044.0	30.3	15.5	45.8	89.6	-43.8	Peak	Horizontal
*	12883.0	26.4	19.4	45.8	89.6	-43.8	Peak	Horizontal
	7519.5	31.7	12.8	44.5	54.0	-9.5	Peak	Vertical
	8395.0	31.1	12.2	43.3	54.0	-10.7	Peak	Vertical
*	9840.0	29.7	16.0	45.7	89.6	-43.9	Peak	Vertical
*	12908.5	26.6	19.5	46.1	89.6	-43.5	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (119.6dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	ACCESS POINT- Omni Antenna (AP-ANT-40)	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/09/02
Test Mode:	802.11n-HT40 - Ant 0 + 1 (CDD Mode)	Test Channel:	03
Remark:	1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands. So the margin was calculated using the average limit for emissions fall within the restricted bands. 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	31.1	12.3	43.4	54.0	-10.6	Peak	Horizontal
	8148.5	31.6	12.1	43.7	54.0	-10.3	Peak	Horizontal
*	9865.5	29.6	16.0	45.6	81.9	-36.3	Peak	Horizontal
*	12908.5	26.6	19.5	46.1	81.9	-35.8	Peak	Horizontal
	7307.0	31.1	12.3	43.4	54.0	-10.6	Peak	Vertical
	8369.5	31.6	12.1	43.7	54.0	-10.3	Peak	Vertical
*	10078.0	32.4	15.6	48.0	81.9	-33.9	Peak	Vertical
*	12823.5	25.7	19.2	44.9	81.9	-37.0	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (111.9dBμV/m) or 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)

Product	ACCESS POINT- Omni Antenna (AP-ANT-40)	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/09/02
Test Mode:	802.11n-HT40 - Ant 0 + 1 (CDD Mode)	Test Channel:	06
Remark:	<p>1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands. So the margin was calculated using the average limit for emissions fall within the restricted bands.</p> <p>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.</p>		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
	7451.5	29.6	12.8	42.4	54.0	-11.6	Peak	Horizontal
	8250.5	30.0	11.9	41.9	54.0	-12.1	Peak	Horizontal
*	10188.5	30.1	16.2	46.3	82.6	-36.3	Peak	Horizontal
*	12823.5	25.7	19.2	44.9	82.6	-37.7	Peak	Horizontal
	7451.5	29.6	12.8	42.4	54.0	-11.6	Peak	Vertical
	8327.0	32.1	11.9	44.0	54.0	-10.0	Peak	Vertical
*	9831.5	30.4	15.9	46.3	82.6	-36.3	Peak	Vertical
*	12951.0	26.6	19.7	46.3	82.6	-36.3	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (112.6dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	ACCESS POINT- Omni Antenna (AP-ANT-40)	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/09/02
Test Mode:	802.11n-HT40 - Ant 0 + 1 (CDD Mode)	Test Channel:	09
Remark:	1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands. So the margin was calculated using the average limit for emissions fall within the restricted bands. 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	29.7	12.8	42.5	54.0	-11.5	Peak	Horizontal
	8429.0	29.9	12.4	42.3	54.0	-11.7	Peak	Horizontal
*	10188.5	27.3	16.2	43.5	84.8	-41.3	Peak	Horizontal
*	12951.0	26.6	19.7	46.3	84.8	-38.5	Peak	Horizontal
	7468.5	29.7	12.8	42.5	54.0	-11.5	Peak	Vertical
	8429.0	30.4	12.4	42.8	54.0	-11.2	Peak	Vertical
*	9831.5	30.3	15.9	46.2	84.8	-38.6	Peak	Vertical
*	12704.5	27.3	18.8	46.1	84.8	-38.7	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (114.8dBμV/m) or 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)



Product	ACCESS POINT- Omni Antenna (AP-ANT-40)	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/09/02
Test Mode:	802.11n-HT20 - Ant 0 + 1 (Beam-Forming Mode)	Test Channel:	01
Remark:	<p>1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands. So the margin was calculated using the average limit for emissions fall within the restricted bands.</p> <p>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.</p>		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7434.5	28.4	12.7	41.1	54.0	-12.9	Peak	Horizontal
	8318.5	29.2	11.9	41.1	54.0	-12.9	Peak	Horizontal
*	9772.0	27.7	14.9	42.6	84.5	-41.9	Peak	Horizontal
*	12857.5	28.9	19.3	48.2	84.5	-36.3	Peak	Horizontal
	7434.5	29.5	12.7	42.2	54.0	-11.8	Peak	Vertical
	8437.5	30.0	12.4	42.4	54.0	-11.6	Peak	Vertical
*	10078.0	29.1	15.6	44.7	84.5	-39.8	Peak	Vertical
*	12857.5	28.9	19.3	48.2	84.5	-36.3	Peak	Vertical

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

Product	ACCESS POINT- Omni Antenna (AP-ANT-40)	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/09/02
Test Mode:	802.11n-HT20 - Ant 0 + 1 (Beam-Forming Mode)	Test Channel:	06
Remark:	<p>1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands. So the margin was calculated using the average limit for emissions fall within the restricted bands.</p> <p>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.</p>		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7468.5	29.4	12.8	42.2	54.0	-11.8	Peak	Horizontal
	8403.5	28.5	12.2	40.7	54.0	-13.3	Peak	Horizontal
*	10078.0	28.2	15.6	43.8	84.2	-40.4	Peak	Horizontal
*	12764.0	27.3	19.0	46.3	84.2	-37.9	Peak	Horizontal
	7341.0	28.7	12.4	41.1	54.0	-12.9	Peak	Vertical
	8352.5	29.6	12.0	41.6	54.0	-12.4	Peak	Vertical
*	10137.5	30.0	15.9	45.9	84.2	-38.3	Peak	Vertical
*	12738.5	27.6	18.9	46.5	84.2	-37.7	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (114.2dBμV/m) or 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)

Product	ACCESS POINT- Omni Antenna (AP-ANT-40)	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/09/02
Test Mode:	802.11n-HT20 - Ant 0 + 1 (Beam-Forming Mode)	Test Channel:	11
Remark:	<p>1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands. So the margin was calculated using the average limit for emissions fall within the restricted bands.</p> <p>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.</p>		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7341.0	28.7	12.4	41.1	54.0	-12.9	Peak	Horizontal
	8412.0	29.8	12.3	42.1	54.0	-11.9	Peak	Horizontal
*	9993.0	30.4	15.4	45.8	83.9	-38.1	Peak	Horizontal
*	13129.5	27.5	20.1	47.6	83.9	-36.3	Peak	Horizontal
	7366.5	29.8	12.5	42.3	54.0	-11.7	Peak	Vertical
	8276.0	29.2	11.9	41.1	54.0	-12.9	Peak	Vertical
*	10171.5	27.8	16.1	43.9	83.9	-40.0	Peak	Vertical
*	13129.5	27.5	20.1	47.6	83.9	-36.3	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (113.9dBμV/m) or 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)

Product	ACCESS POINT- Omni Antenna (AP-ANT-40)	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/09/02
Test Mode:	802.11n-HT40 - Ant 0 + 1 (Beam-Forming Mode)	Test Channel:	03
Remark:	1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands. So the margin was calculated using the average limit for emissions fall within the restricted bands. 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
	7366.5	28.8	12.5	41.3	54.0	-12.7	Peak	Horizontal
	8318.5	31.4	11.9	43.3	54.0	-10.7	Peak	Horizontal
*	9916.5	30.2	15.3	45.5	81.8	-36.3	Peak	Horizontal
*	12815.0	28.9	19.1	48.0	81.8	-33.8	Peak	Horizontal
	7443.0	30.8	12.7	43.5	54.0	-10.5	Peak	Vertical
	8369.5	30.4	12.1	42.5	54.0	-11.5	Peak	Vertical
*	10052.5	30.6	15.5	46.1	81.8	-35.7	Peak	Vertical
*	12815.0	28.9	19.1	48.0	81.8	-33.8	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (111.8dBμV/m) or 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)

Product	ACCESS POINT- Omni Antenna (AP-ANT-40)	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/09/02
Test Mode:	802.11n-HT40 - Ant 0 + 1 (Beam-Forming Mode)	Test Channel:	06
Remark:	<p>1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands. So the margin was calculated using the average limit for emissions fall within the restricted bands.</p> <p>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.</p>		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7451.5	31.1	12.8	43.9	54.0	-10.1	Peak	Horizontal
	8386.5	30.0	12.1	42.1	54.0	-11.9	Peak	Horizontal
*	9831.5	27.3	15.9	43.2	81.6	-38.4	Peak	Horizontal
*	12968.0	28.8	19.8	48.6	81.6	-33.0	Peak	Horizontal
	7400.5	28.5	12.6	41.1	54.0	-12.9	Peak	Vertical
	8471.5	29.5	12.6	42.1	54.0	-11.9	Peak	Vertical
*	10120.5	27.7	15.8	43.5	81.6	-38.1	Peak	Vertical
*	12968.0	28.8	19.8	48.6	81.6	-33.0	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (111.6dBμV/m) or 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)

Product	ACCESS POINT- Omni Antenna (AP-ANT-40)	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/09/02
Test Mode:	802.11n-HT40 - Ant 0 + 1 (Beam-Forming Mode)	Test Channel:	09
Remark:	<p>1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands. So the margin was calculated using the average limit for emissions fall within the restricted bands.</p> <p>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.</p>		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
	7400.5	28.5	12.6	41.1	54.0	-12.9	Peak	Horizontal
	8471.5	31.4	12.6	44.0	54.0	-10.0	Peak	Horizontal
*	9899.5	30.0	15.4	45.4	81.1	-35.7	Peak	Horizontal
*	12849.0	26.6	19.2	45.8	81.1	-35.3	Peak	Horizontal
	7434.5	28.4	12.7	41.1	54.0	-12.9	Peak	Vertical
	8191.0	28.1	12.0	40.1	54.0	-13.9	Peak	Vertical
*	10171.5	28.2	16.1	44.3	81.1	-36.8	Peak	Vertical
*	12849.0	26.6	19.2	45.8	81.1	-35.3	Peak	Vertical

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

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	ACCESS POINT- Directional Antenna (AP-ANT-48)	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/09/02
Test Mode:	802.11b - Ant 0 + 1 (CDD Mode)	Test Channel:	01
Remark:	1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands. So the margin was calculated using the average limit for emissions fall within the restricted bands. 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
	7519.5	30.2	12.8	43.0	54.0	-11.0	Peak	Horizontal
	8284.5	32.9	11.9	44.8	54.0	-9.2	Peak	Horizontal
*	9857.0	28.9	16.2	45.1	90.2	-45.1	Peak	Horizontal
*	12781.0	26.5	19.0	45.5	90.2	-44.7	Peak	Horizontal
	7298.5	31.9	12.3	44.2	54.0	-9.8	Peak	Vertical
	8199.5	31.7	12.0	43.7	54.0	-10.3	Peak	Vertical
*	9899.5	29.9	15.4	45.3	90.2	-44.9	Peak	Vertical
*	12781.0	26.5	19.0	45.5	90.2	-44.7	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (120.2dBμV/m) or 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)

Product	ACCESS POINT- Directional Antenna (AP-ANT-48)	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/09/02
Test Mode:	802.11b - Ant 0 + 1 (CDD Mode)	Test Channel:	06
Remark:	<p>1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands. So the margin was calculated using the average limit for emissions fall within the restricted bands.</p> <p>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.</p>		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7298.5	31.9	12.3	44.2	54.0	-9.8	Peak	Horizontal
	8199.5	30.2	12.0	42.2	54.0	-11.8	Peak	Horizontal
*	10086.5	31.2	15.7	46.9	89.4	-42.5	Peak	Horizontal
*	12883.0	27.4	19.4	46.8	89.4	-42.6	Peak	Horizontal
	7536.5	30.4	12.8	43.2	54.0	-10.8	Peak	Vertical
	8352.5	31.5	12.0	43.5	54.0	-10.5	Peak	Vertical
*	10078.0	29.8	15.6	45.4	89.4	-44.0	Peak	Vertical
*	12883.0	27.4	19.4	46.8	89.4	-42.6	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (119.4dBμV/m) or 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)



Product	ACCESS POINT- Directional Antenna (AP-ANT-48)	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/09/02
Test Mode:	802.11b - Ant 0 + 1 (CDD Mode)	Test Channel:	11
Remark:	<ol style="list-style-type: none"> <li>1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.</li> <li>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.</li> </ol>		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7536.5	30.4	12.8	43.2	54.0	-10.8	Peak	Horizontal
	8276.0	31.7	11.9	43.6	54.0	-10.4	Peak	Horizontal
*	10078.0	30.8	15.6	46.4	88.3	-41.9	Peak	Horizontal
*	12900.0	27.6	19.5	47.1	88.3	-41.2	Peak	Horizontal
	7400.5	29.6	12.6	42.2	54.0	-11.8	Peak	Vertical
	8395.0	31.1	12.2	43.3	54.0	-10.7	Peak	Vertical
*	10171.5	30.1	16.1	46.2	88.3	-42.1	Peak	Vertical
*	12849.0	26.7	19.2	45.9	88.3	-42.4	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (118.3dBμV/m) or 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)

Product	ACCESS POINT- Directional Antenna (AP-ANT-48)	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/09/02
Test Mode:	802.11g - Ant 0 + 1 (CDD Mode)	Test Channel:	01
Remark:	<ol style="list-style-type: none"> <li>1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.</li> <li>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.</li> </ol>		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7511.0	31.3	12.8	44.1	54.0	-9.9	Peak	Horizontal
	8276.0	31.5	11.9	43.4	54.0	-10.6	Peak	Horizontal
*	10078.0	30.8	15.6	46.4	90.3	-43.9	Peak	Horizontal
*	12849.0	26.7	19.2	45.9	90.3	-44.4	Peak	Horizontal
	7511.0	31.3	12.8	44.1	54.0	-9.9	Peak	Vertical
	8480.0	30.9	12.7	43.6	54.0	-10.4	Peak	Vertical
*	10086.5	30.6	15.7	46.3	90.3	-44.0	Peak	Vertical
*	13104.0	27.5	20.1	47.6	90.3	-42.7	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (120.3dBμV/m) or 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)

Product	ACCESS POINT- Directional Antenna (AP-ANT-48)	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/09/02
Test Mode:	802.11g - Ant 0 + 1 (CDD Mode)	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands. 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
	7502.5	29.9	12.8	42.7	54.0	-11.3	Peak	Horizontal
	8310.0	30.3	11.9	42.2	54.0	-11.8	Peak	Horizontal
*	10052.5	30.5	15.5	46.0	90.1	-44.1	Peak	Horizontal
*	13104.0	27.5	20.1	47.6	90.1	-42.5	Peak	Horizontal
	7502.5	29.9	12.8	42.7	54.0	-11.3	Peak	Vertical
	8276.0	32.1	11.9	44.0	54.0	-10.0	Peak	Vertical
*	9814.5	30.1	15.4	45.5	90.1	-44.6	Peak	Vertical
*	12832.0	28.0	19.2	47.2	90.1	-42.9	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (120.1dBμV/m) or 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)

Product	ACCESS POINT- Directional Antenna (AP-ANT-48)	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/09/02
Test Mode:	802.11g - Ant 0 + 1 (CDD Mode)	Test Channel:	11
Remark:	<ol style="list-style-type: none"> <li>1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.</li> <li>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.</li> </ol>		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
	7477.0	30.9	12.8	43.7	54.0	-10.3	Peak	Horizontal
	8429.0	31.0	12.4	43.4	54.0	-10.6	Peak	Horizontal
*	9916.5	29.4	15.3	44.7	89.4	-44.7	Peak	Horizontal
*	12832.0	28.0	19.2	47.2	89.4	-42.2	Peak	Horizontal
	7477.0	30.9	12.8	43.7	54.0	-10.3	Peak	Vertical
	8361.0	32.3	12.0	44.3	54.0	-9.7	Peak	Vertical
*	9831.5	31.2	15.9	47.1	89.4	-42.3	Peak	Vertical
*	12942.5	27.3	19.7	47.0	89.4	-42.4	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (119.4dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	ACCESS POINT- Directional Antenna (AP-ANT-48)	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/09/02
Test Mode:	802.11n-HT20 - Ant 0 + 1 (CDD Mode)	Test Channel:	01
Remark:	1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
	7477.0	30.9	12.8	43.7	54.0	-10.3	Peak	Horizontal
	8361.0	32.3	12.0	44.3	54.0	-9.7	Peak	Horizontal
*	9831.5	31.2	15.9	47.1	90.1	-43.0	Peak	Horizontal
*	12942.5	27.3	19.7	47.0	90.1	-43.1	Peak	Horizontal
	7536.5	29.1	12.8	41.9	54.0	-12.1	Peak	Vertical
	8310.0	31.0	11.9	42.9	54.0	-11.1	Peak	Vertical
*	10061.0	31.4	15.6	47.0	90.1	-43.1	Peak	Vertical
*	12959.5	27.2	19.7	46.9	90.1	-43.2	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (120.1dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)