Demo Passive Survey Report

Prepared for: Demo Company

Prepared by: Demo User
Location: Demo Site

Time of Survey: Tuesday, May 31, 2022 03:16 PM

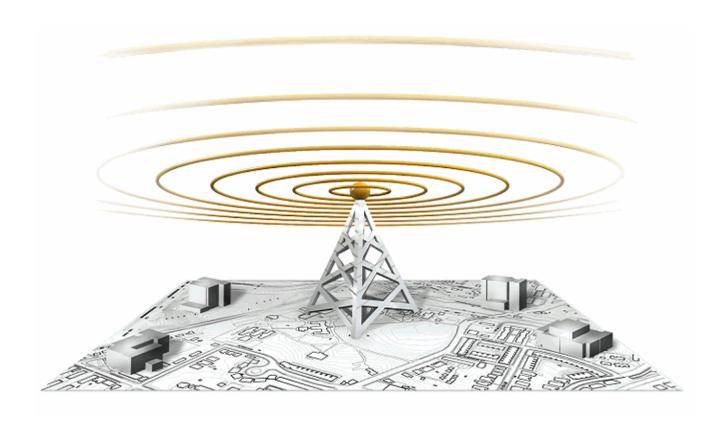


Table of Contents

- 1 Executive Summary
 - 1.1 Survey Overview
 - 1.1.1 Floor Plan Overview
 - 1.1.2 Survey Path
- 2 Introduction
 - 2.1 Objective
 - 2.1.1 Pre-Install/Post-Install Survey-Checkup
- 3 Methodology
- 4 WLAN Deployment Requirements
 - 4.1 Deployment Requirements
- 5 Current AP Placement and Configuration
 - 5.1 AP Placement Overview
 - 5.2 AP Detail Breakdown
- 6 Current Deployment Site Survey
 - 6.1 Access Point Coverage Regions
 - 6.2 Overall Signal Coverage
 - 6.3 Channel Interference
 - 6.4 Predictive PHY Data Rate (Downlink)
 - 6.5 Operating Mode
 - 6.6 Channel Width
 - 6.7 802.11n Max MCS (AP Tx)
 - 6.8 802.11n Max MCS (AP Rx)
 - 6.9 802.11ac Max MCS (AP Tx)
 - 6.10 802.11ac Max MCS (AP Rx)
 - 6.11 802.11ax Max MCS (AP Tx)
 - 6.12 802.11ax Max MCS (AP Rx)
- 7 AirWISE Validation Against Requirements
 - 7.1 Signal Coverage
 - 7.1.1 Redundant AP Coverage
 - 7.2 Channel Interference
 - 7.3 PHY Data Rate
 - 7.3.1 Measured Uplink
 - 7.3.2 Measured Downlink
 - 7.3.3 Predictive Downlink
 - 7.4 Signal/Noise Ratio
 - 7.5 Noise Level
 - 7.6 User Capacity
 - 7.7 Operating Mode
 - 7.7.1 Overall
 - 7.8 Channel Width
 - 7.8.1 Overall
 - 7.9 802.11n Highest MCS Index
 - 7.9.1 Overall
 - 7.10 802.11ac Highest MCS Index
 - 7.10.1 Overall
 - 7.11 802.11ax Highest MCS Index
 - 7.11.1 Overall
- 8 Conclusions

1 Executive Summary

This wireless site survey and RF analysis were performed in order to gain an in-depth understanding of present RF interference sources and to meet overall wireless coverage requirements. The primary goal and subsequent objectives were designed with coverage, desired throughput and usability as primary driving requirements from the business group. This survey was created using an industry standard set of AirMagnet Survey PRO wireless tools and software, which are used for building and securing wireless networks. This survey encompasses site surveying, RF spectrum analysis surveying and real time active site surveying techniques. This document includes site survey specific information, Access Point configuration and installation data sheets, and RF coverage pattern maps. A wireless survey was performed at the customer site. The purpose of the survey is to determine the number and placement of wireless access points necessary to provide ubiquitous coverage for the entire building.

1.1 Survey Overview

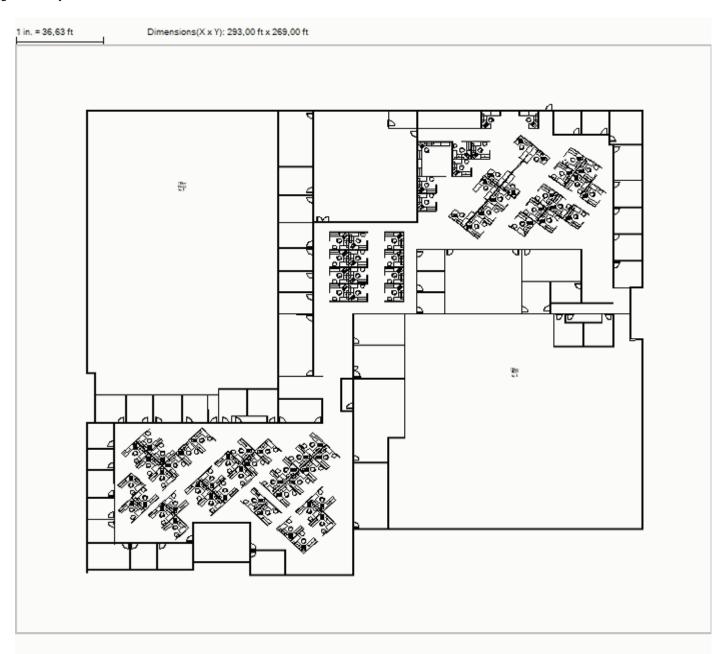
Powered by AirMagnet Page 3 of 72

1.1.1 Floor Plan Overview

The image below details the area that was surveyed. It includes the floor plan and the dimensions of the building. It can be useful to refer back to this view from some of the other graphs to help orient yourself.

Dimensions	
х	293,00 ft
Y	269,00 ft

Powered by AirMagnet Page 4 of 72

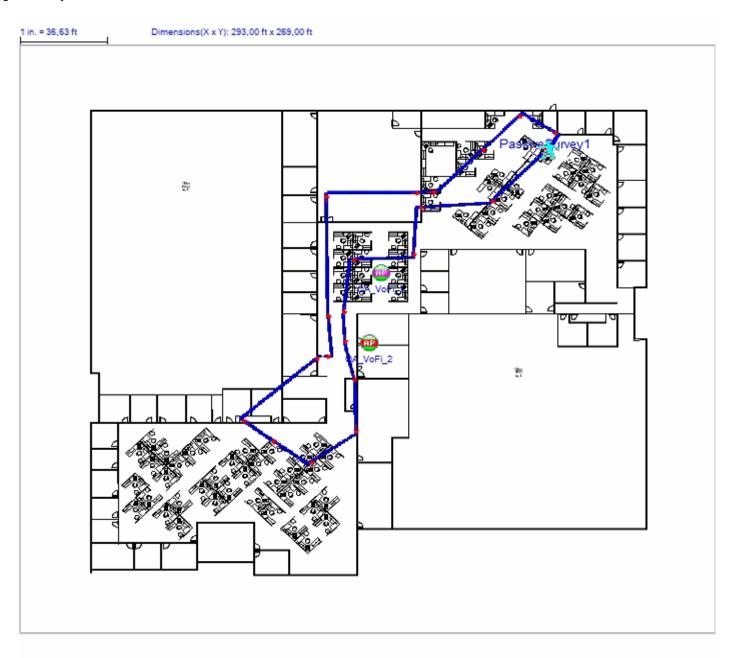


Powered by AirMagnet Page 5 of 72

1.1.2 Survey Path

This image displays the path taken during the survey process. The red dots indicate points that were clicked during the survey, whereas the blue ones represent sampling points taken by the application automatically.

Powered by AirMagnet Page 6 of 72



Powered by AirMagnet Page 7 of 72

2 Introduction

2.1 Objective

2.1.1 Pre-Install/Post-Install Survey-Checkup

The stated objective of this survey is to perform a spot-check of the existing deployment in order to establish that the current wireless infrastructure meets the needs of the users present. The requirements against which these results will be compared are stated in the WLAN Deployment Requirements section detailed later in this report.

Powered by AirMagnet Page 8 of 72

3 Methodology

Multiple surveys were performed to allow finer detail and comprehensive data gathering. The process used to determine the existing RF data coverage in the facility is outlined below:

- Passive surveys were conducted throughout the facility to gather RF data (signal strength, noise level, signal-to-noise ratio, SSID and MAC addresses)
- Active Surveys were conducted throughout the facility. This was done to test performance and the roaming and connectivity ability of the Wi-Fi Network.

Powered by AirMagnet Page 9 of 72

4 WLAN Deployment Requirements

This section documents the user's stated requirements for satisfactory wireless service in the region being surveyed. Note that these values can differ from site to site.

4.1 Deployment Requirements

Description	Threshold	
Desired Signal Coverage		
Minimum AP signal strength required	-67 dBm	
Multiple AP Signal Coverage		
Number of APs required to provide coverage	2	
Minimum AP signal strength required to provide coverage	-67 dBm	
Channel Interference		
Interfered APs: Exclude APs if signal strength is weaker than	-75 dBm	
Interfering APs: Exclude APs if signal strength is weaker than	-85 dBm	
Measured PHY Data Rate Uplink Coverage		
Minimum AP PHY Data Rate required	5,50 Mbps	
Measured PHY Data Rate Downlink Coverage		
Minimum AP PHY Data Rate required	54,00 Mbps	
Predictive PHY Data Rate Downlink Coverage		
Minimum AP PHY Data Rate required	54,00 Mbps	
Signal Noise Ratio Coverage		
Minimum Signal Noise Ratio required	25 dBm	
Noise Level		
Maximum Noise Level Allowed	-90 dBm	
User Capacity		
Maximum Users Supported per AP	15	
With Load Balancing	True	
Operating Mode		
Greenfield Operating Mode	Allowed	
HT Mixed Operating Mode	Not Allowed	
VHT Mixed Operating Mode	Allowed	
HE Mixed Operating Mode	Allowed	
Legacy Operating Mode	Not Allowed	
Channel Width		
40 MHz Channel Width	Allowed	

Powered by AirMagnet Page 10 of 72

20HT MHz Channel Width	Not Allowed	
20 MHz Legacy Channel Width	Not Allowed	
80 MHz Channel Width	Allowed	
160 MHz Channel Width	Allowed	
802.11n Highest MCS Index		
Minimum Tx MCS index required	15	
802.11ac Highest MCS Index		
Minimum Tx MCS index required	9	
802.11ax Highest MCS Index		
Minimum Tx MCS index required	11	

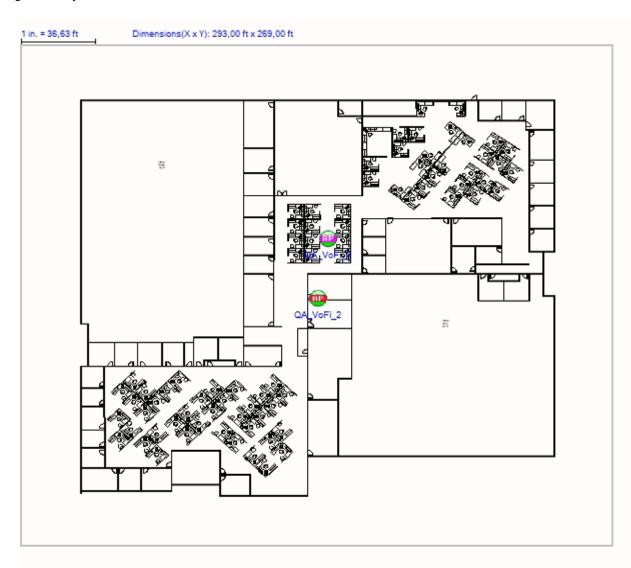
Powered by AirMagnet Page 11 of 72

5 Current AP Placement and Configuration

The floor plan below shows the locations of the currently installed APs or desired if this is a new deployment. The specific details for each AP are described in the section labeled "AP Detail Breakdown". Note: Only the AP's that were placed on the floor plan prior to running the report will be shown on the floor plan image.

5.1 AP Placement Overview

Powered by AirMagnet Page 12 of 72



5.2 AP Detail Breakdown

Powered by AirMagnet Page 13 of 72

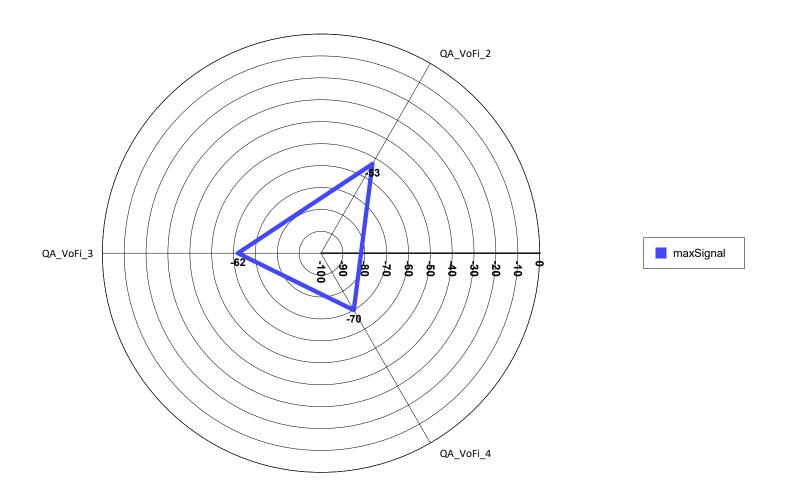
Access Points

AP Name	Media Type	MAC Address	Channel	SSID	Power,mW	Max Signal
Non ACL, Neighl	bors, Rogues					
QA_VoFi_2	802.11a-5.0 GHz	00:0F:34:A7:78:1F	CH (149)	QACiscoVoice	100	-53
QA_VoFi_3	802.11a-5.0 GHz	00:13:80:43:15:2F	CH (157)	QACiscoVoice	100	-62
QA_VoFi_4	802.11a-5.0 GHz	00:14:6A:07:3B:BF	CH (161)	QACiscoVoice	100	-70

Number of AP 3

Total APs: 3 Total BSSIDs: 3

AP Signal Strength (dBm)



Powered by AirMagnet Page 14 of 72

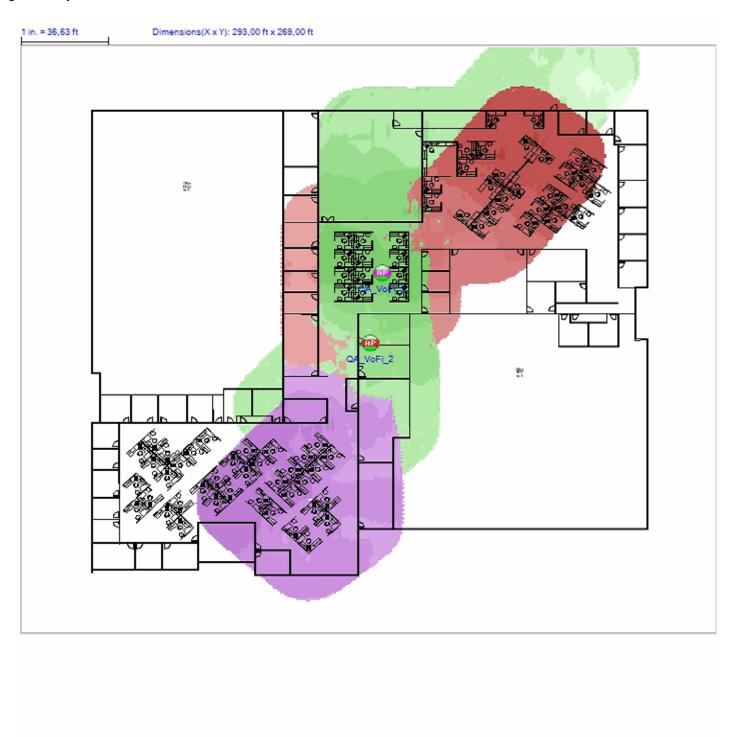
6 Current Deployment Site Survey

Powered by AirMagnet Page 15 of 72

6.1 Access Point Coverage Regions

The image below shows the areas covered by the access points (in dBm). The color shown represents the AP with the strongest signal in any given area. This map will give you a visual representation of the Wi-Fi coverage area for the AP's.

Powered by AirMagnet Page 16 of 72



■ QA_VoFi_2 [00:0F:34:A7:78:1F] ■ QA_VoFi_3 [00:13:80:43:15:2F]

Powered by AirMagnet Page 17 of 72

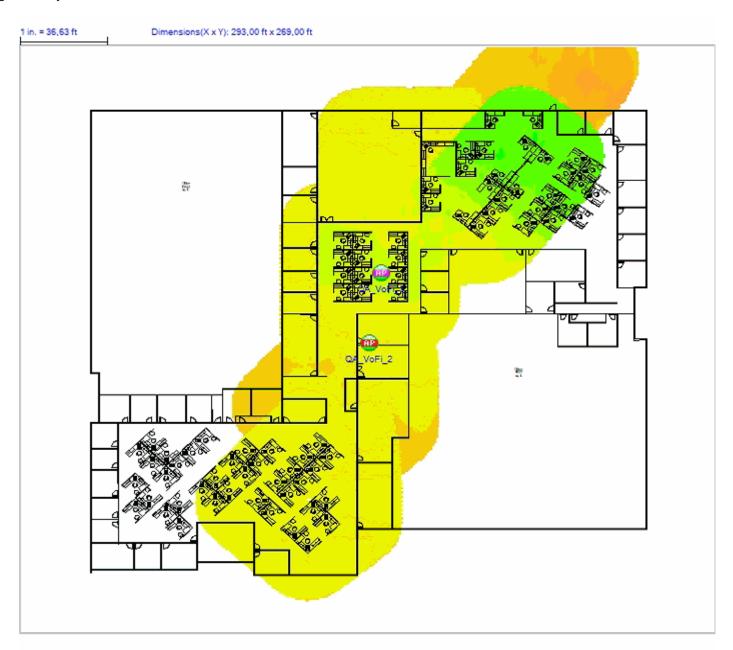
6.2 Overall Signal Coverage

The image below displays the signal coverage (in dBm) at each point in the map layout. As a general rule, regions with signal levels below -67 dBm provide insufficient coverage for standard use (this value may vary depending on user requirements, service level agreements, applications used, number of users serviced, etc.).

APs are displayed in their detected locations (and reflect the existing power and antenna properties). Note: An active Wi-Fi area can incorporate a variety of environmental factors that can vary throughout the day and may adversely affect RF coverage.

Note: Only the AP's that were placed on the floor plan prior to running the report will be shown on the floor plan image.

Powered by AirMagnet Page 18 of 72



Signal 0 -10 -20 -30 -40 -50 -60 -70 -80 -90 -100 (dBm)

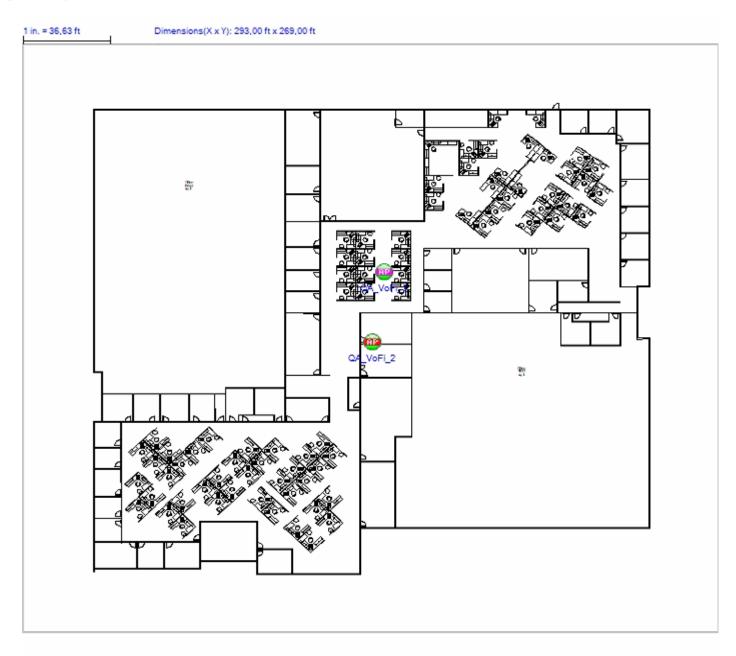
Powered by AirMagnet Page 19 of 72

6.3 Channel Interference

The image below displays the interference level (in percentage) at each point on the map layout. APs are displayed in their detected locations and reflect the existing power and antenna properties. Note that the interference levels present in the environment can vary depending on several factors, such as the number of APs on a single channel, number of devices present, non-802.11 interferers, etc.

Note: Only the AP's that were placed on the floor plan prior to running the report will be shown on the floor plan image.

Powered by AirMagnet Page 20 of 72



Interfer. 100 90 80 70 60 50 40 30 20 10 0 (%)

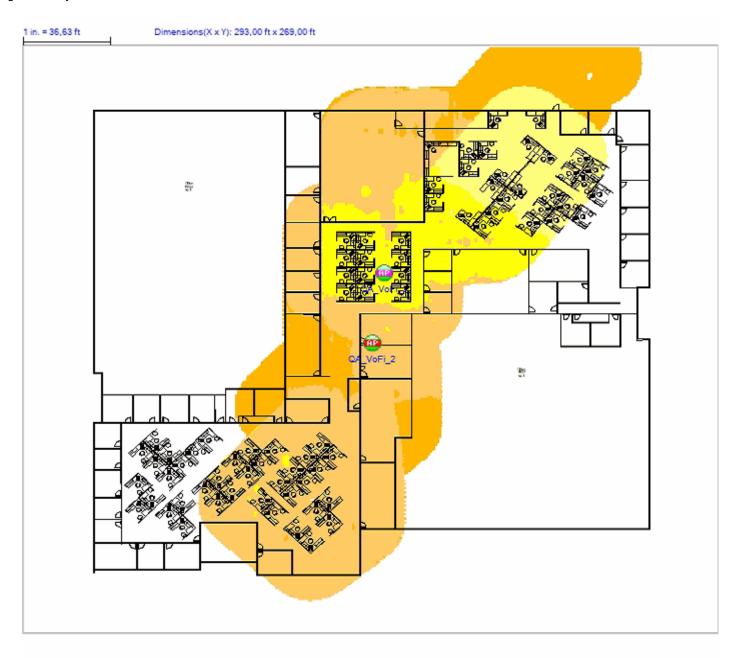
Powered by AirMagnet Page 21 of 72

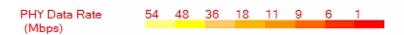
6.4 Predictive PHY Data Rate (Downlink)

The image below displays the predictive PHY data rate connection downlink at each point in the map layout.

Connection Rates provides a direct insight into how well the network will support a real-world end-user client. When doing a Passive survey the ability to see the actual Data rate is not available. In order to provide Data Rates while doing a Passive survey we use Signal Strength to Data Rate mapping table. We take the detected signal strength and map it to a known Data Rate. A low Data Rate connection directly translates to lower throughput and performance for an end-user. Consistently low connection Rates are indicative of insufficient signal coverage, interference, noise, or misconfigured wireless devices.

Powered by AirMagnet Page 22 of 72



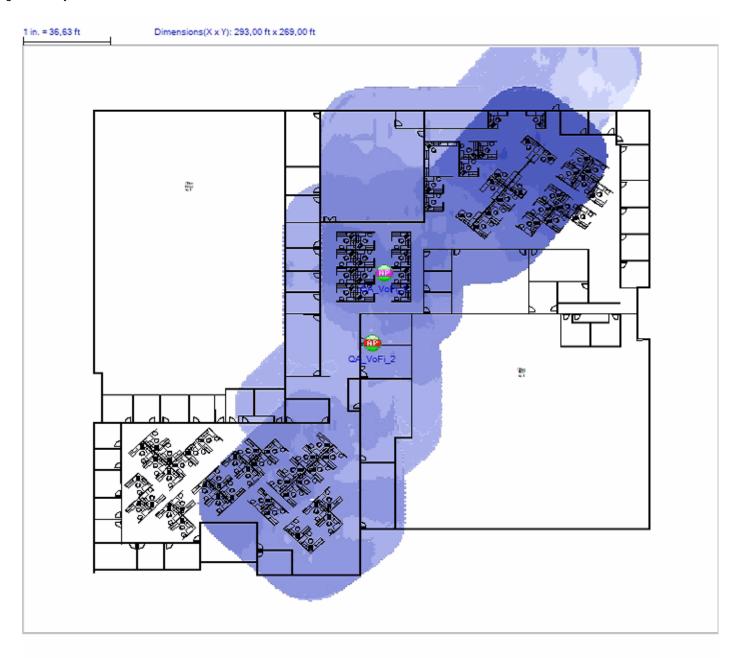


Powered by AirMagnet Page 23 of 72

6.5 Operating Mode

The image below displays the coverage of the 802.11 operating modes. Refer to the legend for the color that corresponds to each mode (Legacy, Mixed HT, Greenfield HT, or Mixed VHT). The heat map displays the color of the operating mode that corresponds to the AP with the strongest signal detected at any given point. For example, locations shown as Mixed HT may contain Mixed VHT signal coverage and vice versa, but the AP with the strongest signal in that area utilizes a Mixed HT implementation.

Powered by AirMagnet Page 24 of 72





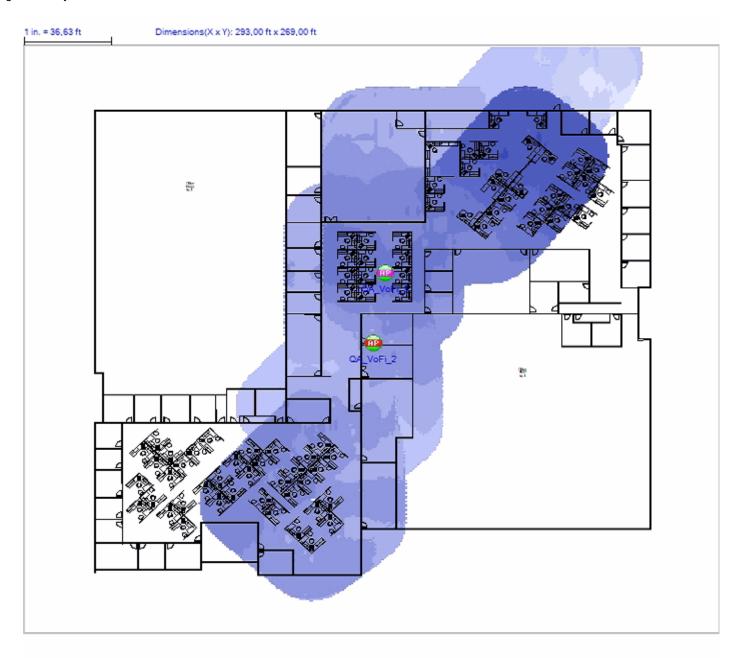
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6.6 Channel Width

The image below displays the breakdown of the detected channel width.

The color shown represents the Channel Width of the AP with the strongest signal in any given area.

Powered by AirMagnet Page 26 of 72



 Channel
 ■ 20 MHz (Legacy)
 ■ 20 MHz (802.11n/ac/ax HT)
 ■ 40 MHz (802.11n/ac/ax HT)

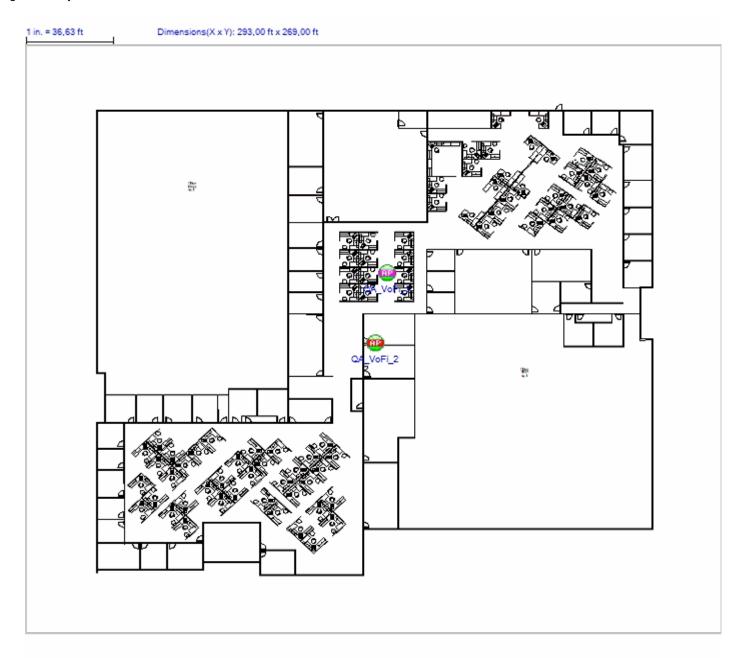
 Width
 ■ 80 MHz (802.11ac/ax VHT/HE)
 ■ 160 MHz (802.11ac/ax VHT/HE)

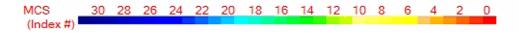
Powered by AirMagnet Page 27 of 72

6.7 802.11n Max MCS (AP Tx)

The image below displays the AP's detected 802.11n MCS Transmission Rates. This heatmap reflects the 802.11n AP MCS Transmit mode that was detected.

Powered by AirMagnet Page 28 of 72



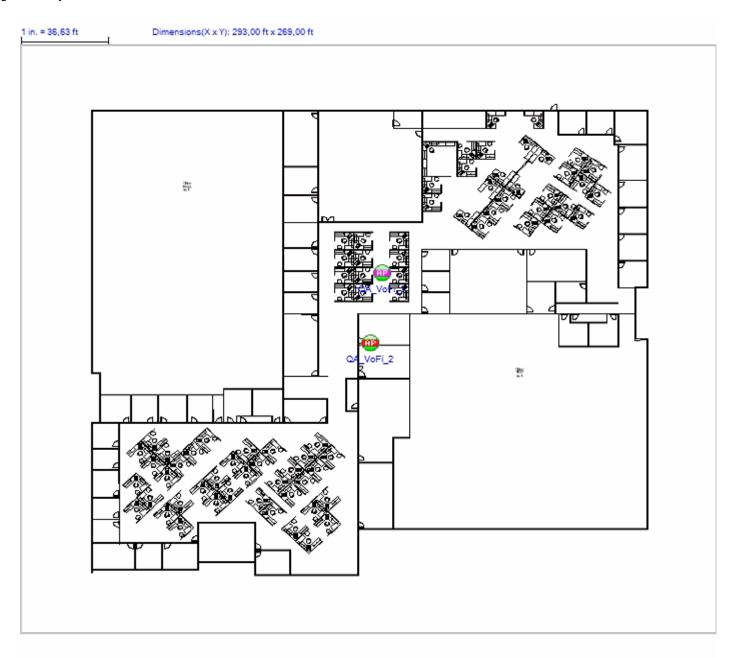


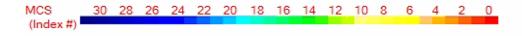
Powered by AirMagnet Page 29 of 72

6.8 802.11n Max MCS (AP Rx)

The image below displays the AP's detected 802.11n MCS Receive Rates.

Powered by AirMagnet Page 30 of 72



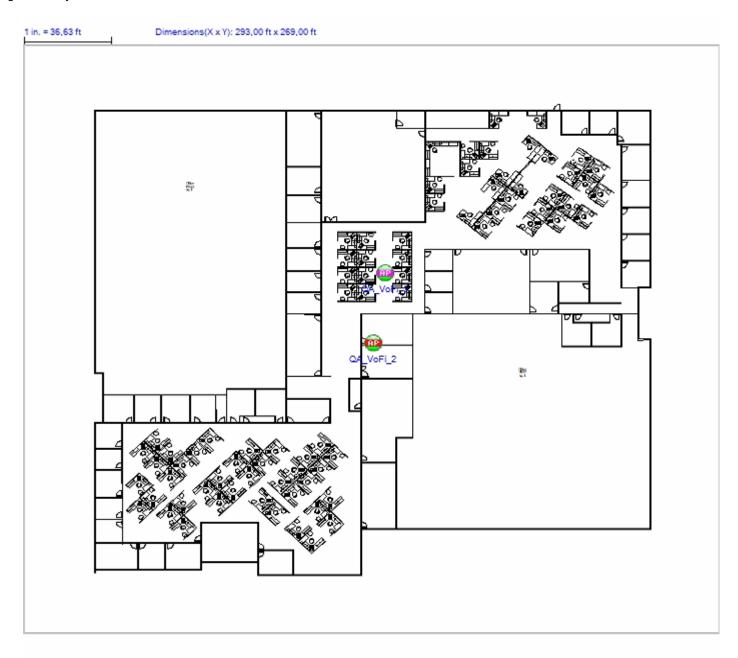


Powered by AirMagnet Page 31 of 72

6.9 802.11ac Max MCS (AP Tx)

The image below displays the AP's detected 802.11ac MCS Transmission Rates. This heatmap reflects the 802.11ac AP MCS Transmit mode that was detected.

Powered by AirMagnet Page 32 of 72



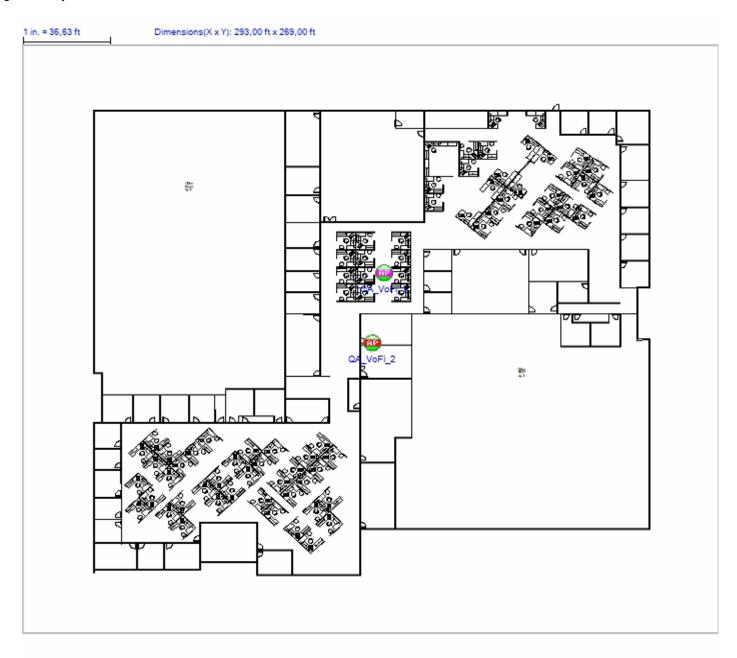


Powered by AirMagnet Page 33 of 72

6.10 802.11ac Max MCS (AP Rx)

The image below displays the AP's detected 802.11ac MCS Receive Rates.

Powered by AirMagnet Page 34 of 72



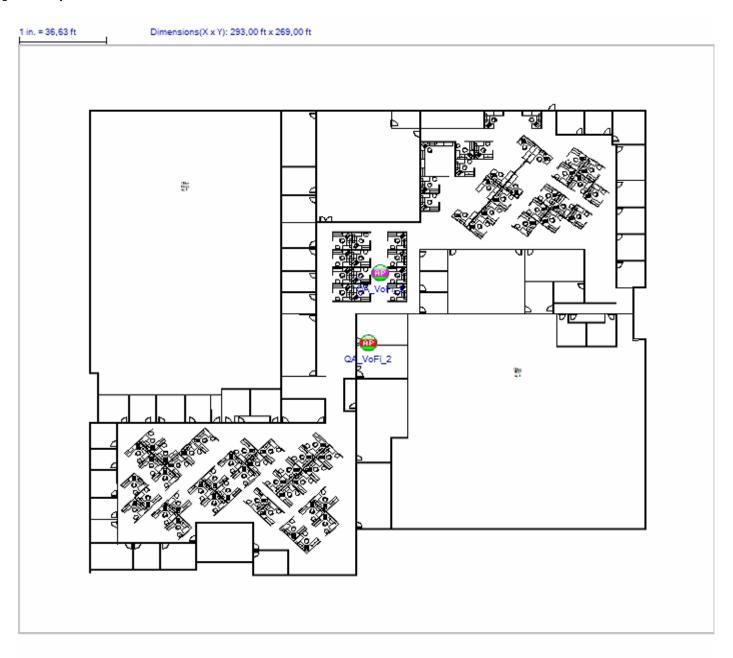


Powered by AirMagnet Page 35 of 72

6.11 802.11ax Max MCS (AP Tx)

The image below displays the AP's detected 802.11ax MCS Transmission Rates. This heatmap reflects the 802.11ax AP MCS Transmit mode that was detected.

Powered by AirMagnet Page 36 of 72



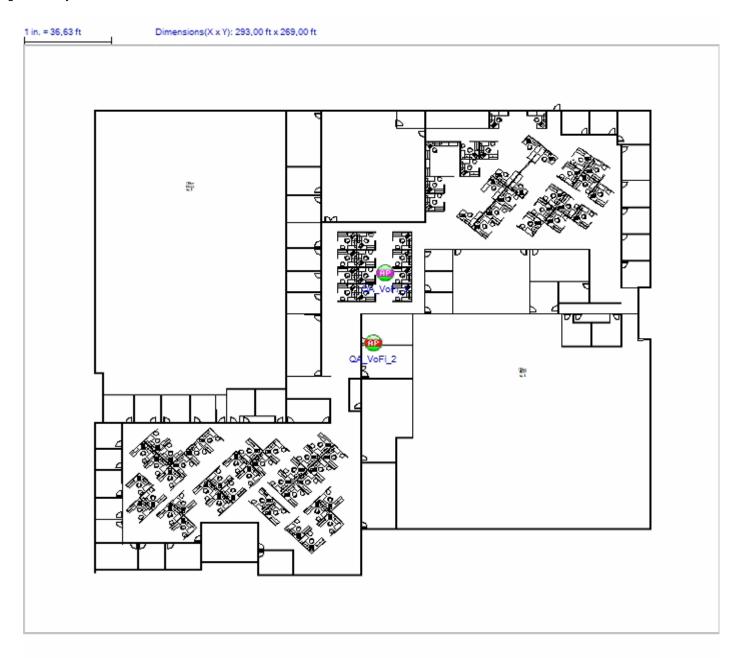


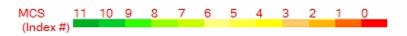
Powered by AirMagnet Page 37 of 72

6.12 802.11ax Max MCS (AP Rx)

The image below displays the AP's detected 802.11ax MCS Receive Rates.

Powered by AirMagnet Page 38 of 72





Powered by AirMagnet Page 39 of 72

7 AirWISE Validation Against Requirements

This report section provides a comprehensive summary of all AirWISE data relating to the current survey project. AirMagnet's AirWISE engine allows users to specify minimum acceptable thresholds for various requirements within the network. It compares the data gathered during the survey process against the requirements. Requirements that are not met are highlighted in their respective sections. Several sections also contain signal heat maps that help demonstrate exactly where the threshold violations can be found. Each section provides a breakdown of each requirement and displays a pass/fail rating based on how well the collected results stand up against the objectives.

Powered by AirMagnet Page 40 of 72

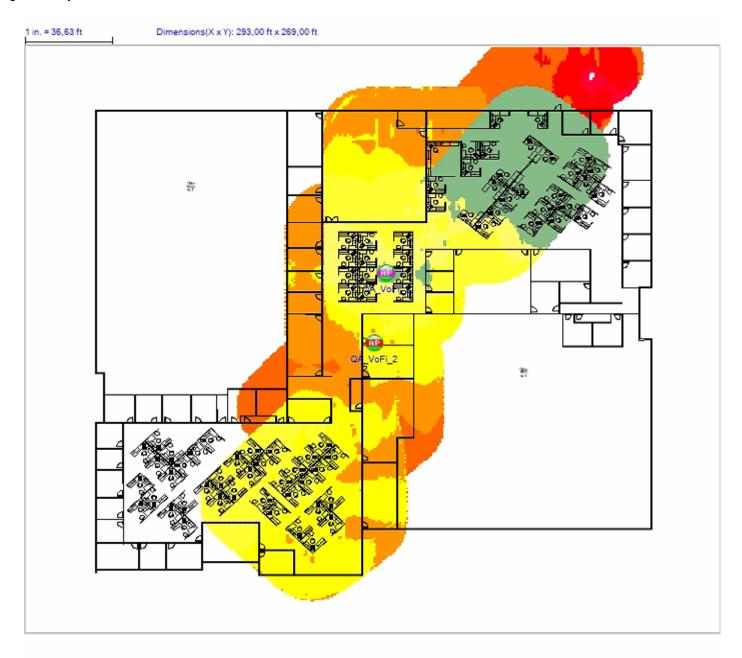
7.1 Signal Coverage

The Signal Coverage requirement allows the user to specify that certain regions of the deployment must have sufficient coverage to provide adequate service. Areas of the map that meet the current requirements for Signal coverage are labeled in light green. Areas that do not meet the requirement are displayed according to the color code on the slider bar below the image.

Powered by AirMagnet Page 41 of 72

Desired Signal Coverage	
Pass/Fail Result	Fail: 16,30% of the surveyed area meets the Minimum requirement. (100,00% of Good Area. required to pass)
Minimum AP signal strength required	Minimum of -67 dBm

Powered by AirMagnet Page 42 of 72



Signal 0 -10 -20 -30 -40 -50 -60 -70 -80 -90 -100 (dBm)

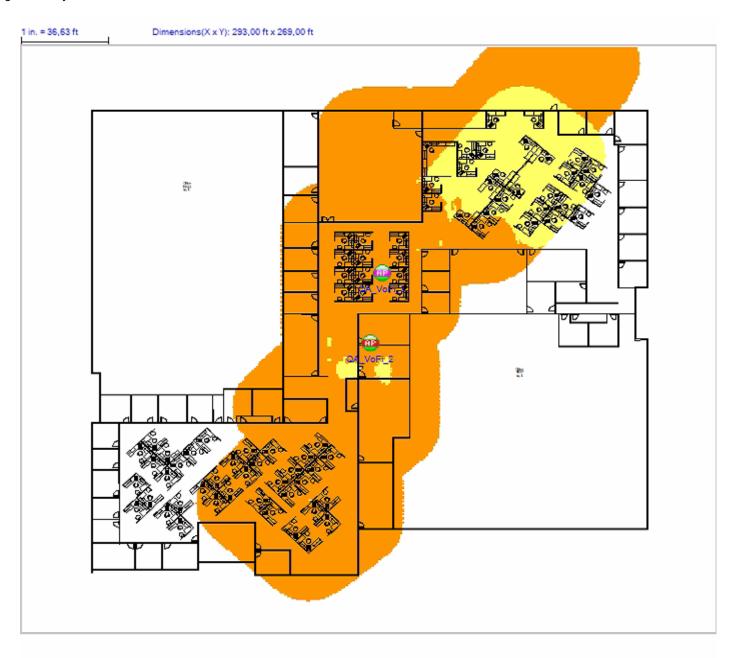
Powered by AirMagnet Page 43 of 72

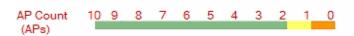
7.1.1 Redundant AP Coverage

The Redundant AP Coverage requirement allows the user to specify that certain regions of the deployment must have coverage from more than one AP in order to be considered adequate service. Areas of the map that meet the current requirements for AP coverage are labeled in light green. Areas that do not meet the requirement are displayed according to the color code on the slider bar below the image. This requirement contains two configurable thresholds: the user must specify the minimum number of APs required for the site as well as the minimum signal level that is considered acceptable for the APs to warrant consideration. If either one of these two thresholds is not met, the area is considered non-compliant.

Multiple AP Signal Coverage	
Pass/Fail Result	Fail: 0,00% of the surveyed area meets the Minimum requirement. (100,00% of Good Area. required to pass)
Number of APs required to provide coverage	2
Minimum AP signal strength required to provide coverage	-67 dBm

Powered by AirMagnet Page 44 of 72





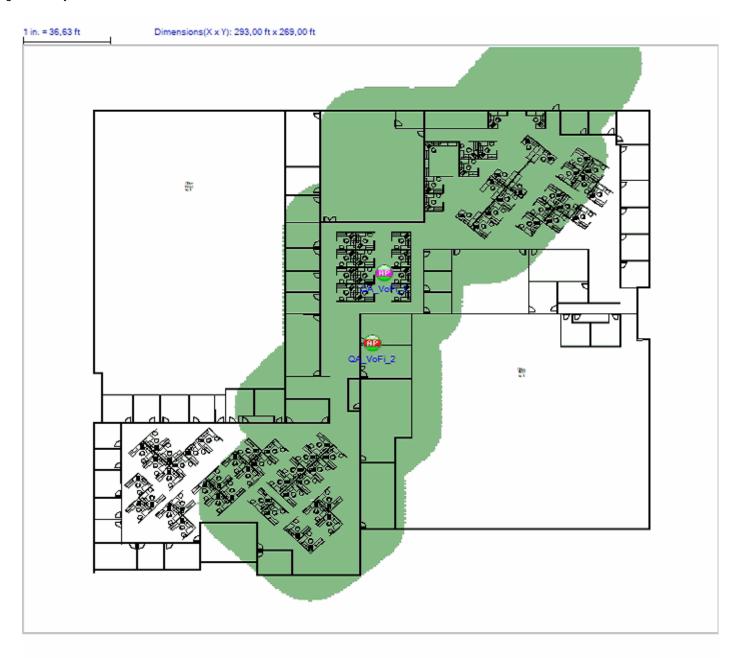
Powered by AirMagnet Page 45 of 72

7.2 Channel Interference

Areas of the map that meet the current requirement for Supported Speed are labeled in light green. Areas that do not meet the requirement are displayed according to the color code on the slider bar below the image. Let the mouse hover over any area of the map to show additional details. Important Note: AirMagnet Survey measures interference from the point of view of a particular AP. Thus for a given AP, AirMagnet shows a cumulative view of all the various Wi-Fi sources that are interfering with that one AP. As a result, users should deselect all APs that are not the focus of investigation (using the device tree to the left on the Display page). The signals from de-selected devices are still considered when determining interference to other APs.

Channel Interference	
Pass/Fail Result	Pass: 100,00% of the surveyed area meets the Minimum requirement. (100,00% of Good Area. required to pass)
Interfered APs: Exclude APs if signal strength is weaker than	-75 dBm
Interfering APs: Exclude APs if signal strength is weaker than	-85 dBm

Powered by AirMagnet Page 46 of 72



Interfer. 100 90 80 70 60 50 40 30 20 10 0 (%)

Powered by AirMagnet Page 47 of 72

Demo Passive Survey Report

7.3 PHY Data Rate

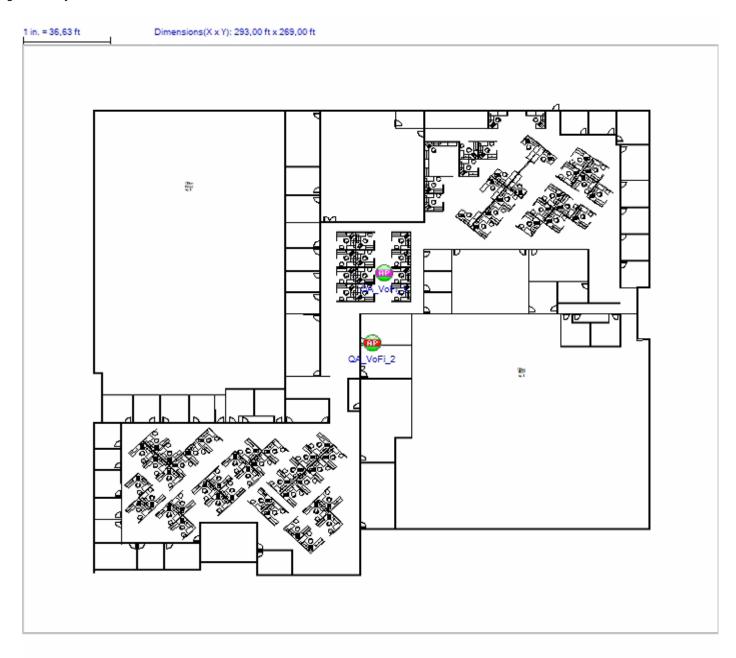
Powered by AirMagnet Page 48 of 72

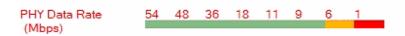
7.3.1 Measured Uplink

Areas of the floor plan that meet the current requirement for Min Uplink Data Rate Supported or a combination of Uplink and Downlink Rates depend on the adapter used for the survey are labeled in light green. Areas that do not meet the requirement are displayed according to the color code on the slider bar below the image. This scale is shown in terms of Mbps.

Measured PHY Data Rate Uplink Coverage	
Pass/Fail Result	N/A
Minimum AP PHY Data Rate required	Minimum of 5,5 Mbps

Powered by AirMagnet Page 49 of 72





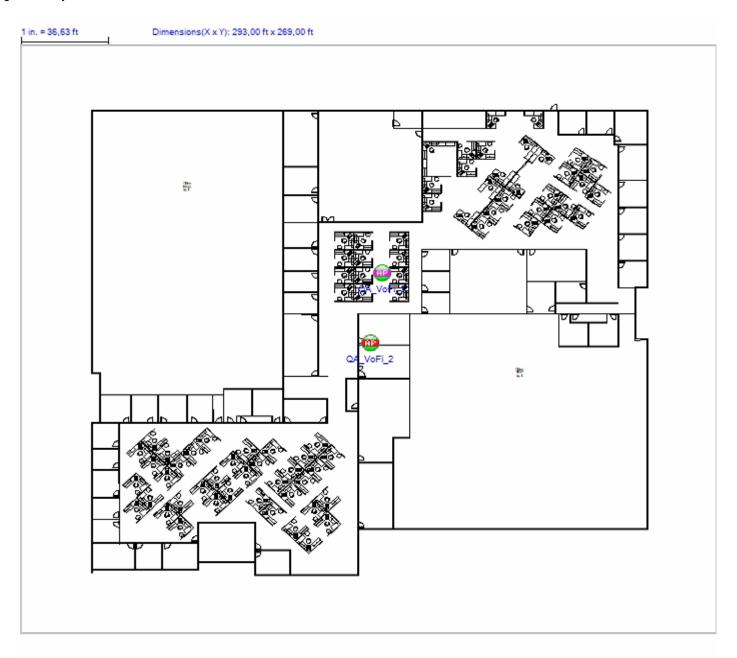
Powered by AirMagnet Page 50 of 72

7.3.2 Measured Downlink

Areas of the floor plan that meet the current requirement for Min Downlink Data Rate Supported are labeled in light green. Areas that do not meet the requirement are displayed according to the color code on the slider bar below the image.

Measured PHY Data Rate Downlink Coverage	
Pass/Fail Result	N/A
Minimum AP PHY Data Rate required	Minimum of 54 Mbps

Powered by AirMagnet Page 51 of 72





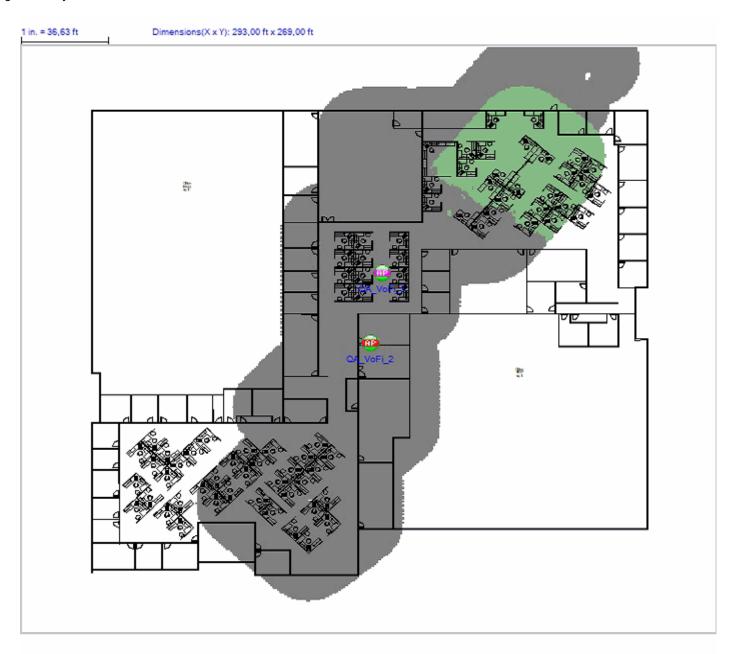
Powered by AirMagnet Page 52 of 72

7.3.3 Predictive Downlink

Areas of the floor plan that meet the current requirement for Min Downlink Data Rate Supported are labeled in light green. Areas that do not meet the requirement are displayed according to the color code on the slider bar below the image. This scale is shown in terms of Mbps.

Predictive PHY Data Rate Downlink Coverage	
Pass/Fail Result	Fail: 14,10% of the surveyed area meets the Minimum requirement. (100,00% of Good Area. required to pass)
Minimum AP PHY Data Rate required	Minimum of 54 Mbps

Powered by AirMagnet Page 53 of 72





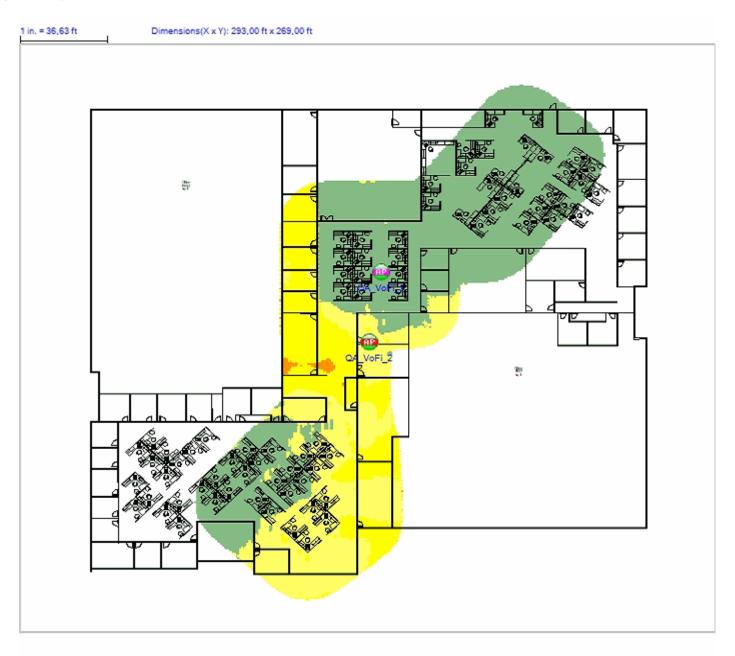
Powered by AirMagnet Page 54 of 72

7.4 Signal/Noise Ratio

Areas that meet the current RF coverage requirement are shown in light green. Areas that do not meet the requirement are displayed according to the color code on the slider bar below the image. The weakest signals are shown in red.

Signal Noise Ratio Coverage	
Pass/Fail Result	Fail: 57,30% of the surveyed area meets the Minimum requirement. (100,00% of Good Area. required to pass)
Minimum Signal Noise Ratio required	25 dBm

Powered by AirMagnet Page 55 of 72



S/N 100 90 80 70 60 50 40 30 20 10 0 (dB)

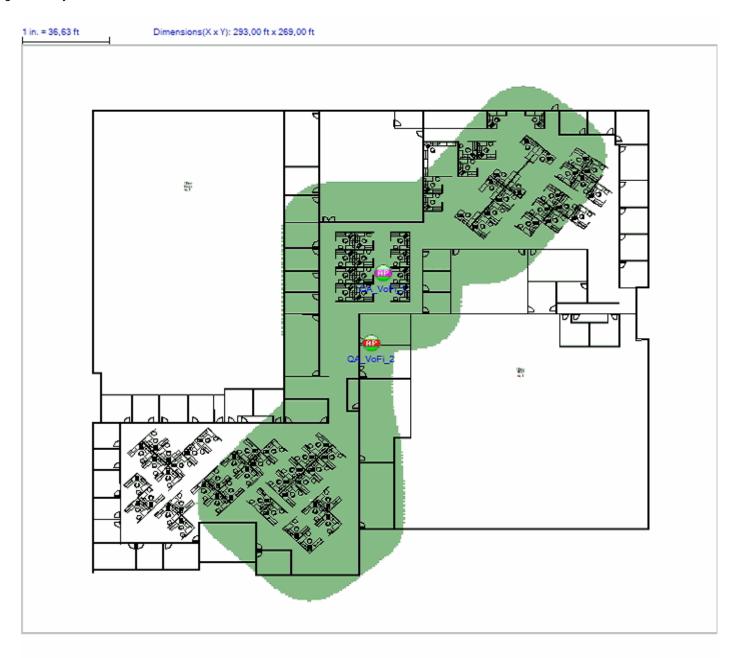
Powered by AirMagnet Page 56 of 72

7.5 Noise Level

Areas of the map that meet the current requirement for noise are labeled in light green. Areas that do not meet the requirement are displayed according to the color code on the slider bar below the image. Noise levels are displayed in dBm with areas of highest noise shown in red.

Noise Level	
Pass/Fail Result	Pass: 100,00% of the surveyed area meets the Minimum requirement. (100,00% of Good Area. required to pass)
Maximum Noise Level Allowed	-90 dBm

Powered by AirMagnet Page 57 of 72



Noise 0 -10 -20 -30 -40 -50 -60 -70 -80 -90 -100 (dBm)

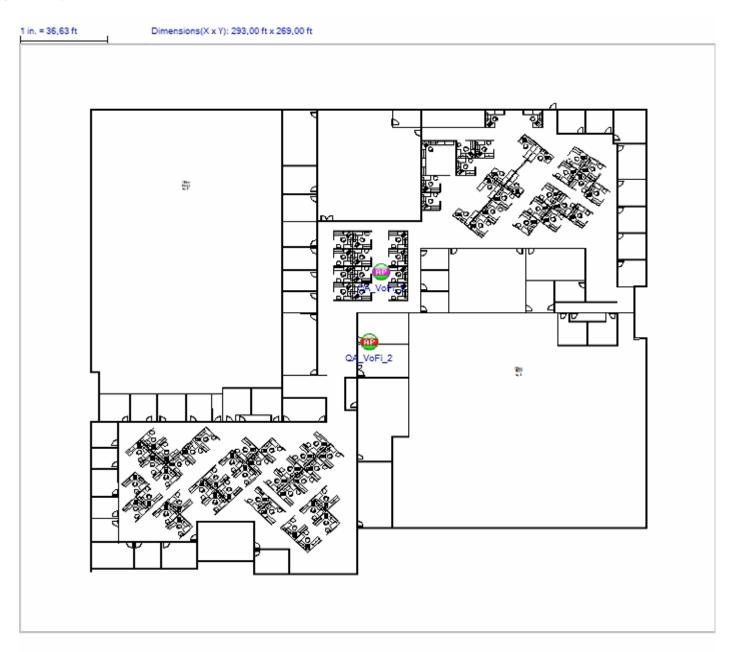
Powered by AirMagnet Page 58 of 72

7.6 User Capacity

The User Capacity requirement allows users to specify the number of users expected to be present in selected regions of the map. If the survey reveals that there are not enough APs present to service the users in the area, that region will be displayed in red on the heat map below.

	User Capacity
Pass/Fail Result	N/A
Maximum Users Supported per AP	15
With Load Balancing	True

Powered by AirMagnet Page 59 of 72



(User Count) 50 45 40 35 30 25 20 15 10 5 0

Powered by AirMagnet Page 60 of 72

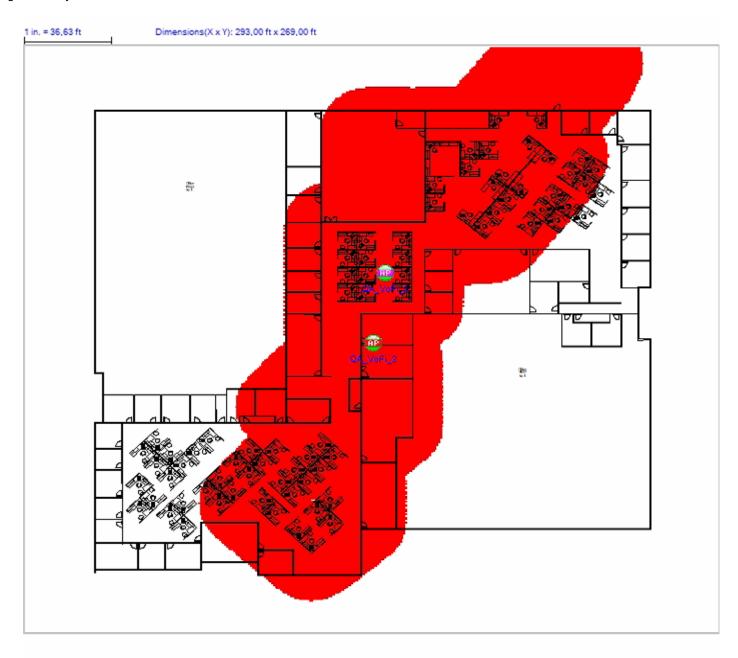
7.7 Operating Mode

This section shows if the network meets the Operating Mode requirements of the deployment policy. Five 802.11n/ac/ax operating modes are available, with each one being "allowed" or "not allowed". The table below provides a means of interpreting the heat map displayed immediately beneath it. The "Operating Mode" field displays the percentage of the network that complies with the Operating Mode policy as specified in the five Operating Mode fields below it and configured on the AirWISE page. This function allows users to view the areas of the network that do not provide appropriate Operating Mode coverage as defined by the specified policy. The regions that comply with the requirement are displayed in green, whereas regions that do not comply are displayed in red.

7.7.1 Overall

Operating Mode	
Pass/Fail Result	Fail: 0,00% of the surveyed area meets the Minimum requirement. (100,00% of Good Area. required to pass)
Greenfield Operating Mode	Allowed
HT Mixed Operating Mode	Not Allowed
VHT Mixed Operating Mode	Allowed
HE Mixed Operating Mode	Allowed
Legacy Operating Mode	Not Allowed

Powered by AirMagnet Page 61 of 72





Powered by AirMagnet Page 62 of 72

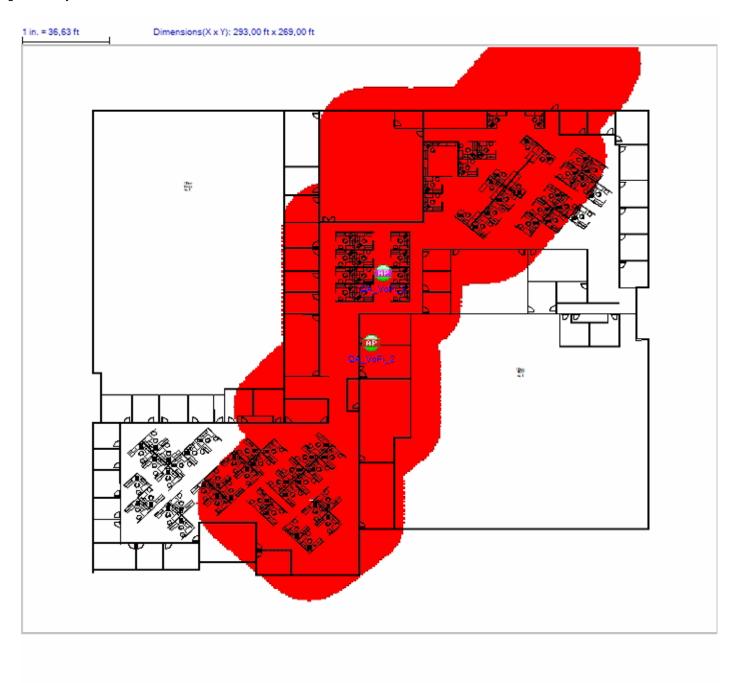
7.8 Channel Width

This section of the channel width requirements will show the actual detected channel usages detected. The heat map will show the areas that will be the cause of the pass or failure of the requirements specified for the channel width.

7.8.1 Overall

Channel Width	
Pass/Fail Result	Fail: 0,00% of the surveyed area meets the Minimum requirement. (100,00% of Good Area. required to pass)
40 MHz Channel Width	Allowed
20HT MHz Channel Width	Not Allowed
20 MHz Legacy Channel Width	Not Allowed
80 MHz Channel Width	Allowed
160 MHz Channel Width	Allowed

Powered by AirMagnet Page 63 of 72



Channel Pass Fail
Width

Powered by AirMagnet Page 64 of 72

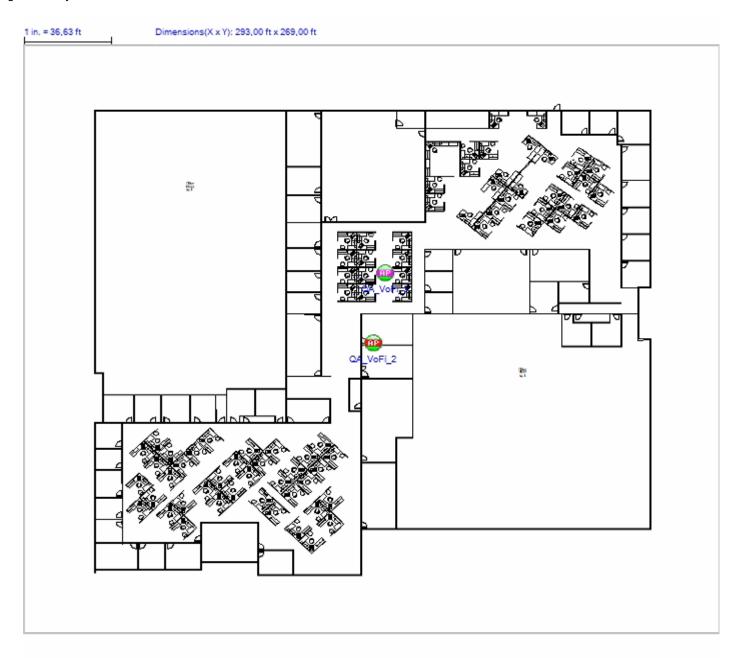
7.9 802.11n Highest MCS Index

This requirement show which areas of the current survey report meet the requirements specified by the 802.11n Minimum Tx MCS Index required threshold. Areas that meet the requirement are displayed in light green, whereas regions that do not meet the required MCS are displayed in a color assigned by the color-codes on the legend.

7.9.1 Overall

802.11n Highest MCS Index	
Pass/Fail Result	N/A
Minimum Tx MCS index required	15

Powered by AirMagnet Page 65 of 72





Powered by AirMagnet Page 66 of 72

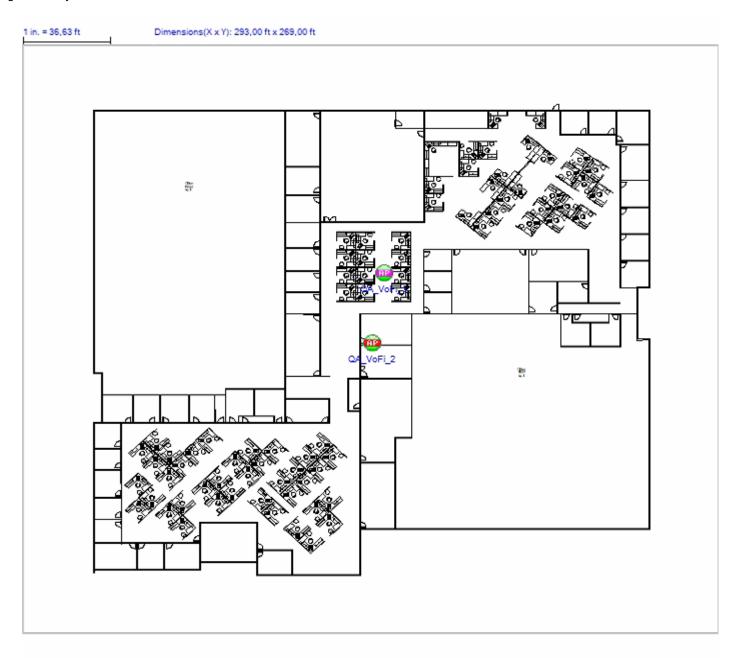
7.10 802.11ac Highest MCS Index

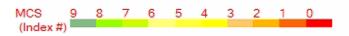
This requirement show which areas of the current survey report meet the requirements specified by the 802.11ac Minimum Tx MCS Index required threshold. Areas that meet the requirement are displayed in light green, whereas regions that do not meet the required MCS are displayed in a color assigned by the color-codes on the legend.

7.10.1 Overall

802.11ac Highest MCS Index		
Pass/Fail Result	N/A	
Minimum Tx MCS index required	9	

Powered by AirMagnet Page 67 of 72





Powered by AirMagnet Page 68 of 72

Demo Passive Survey Report

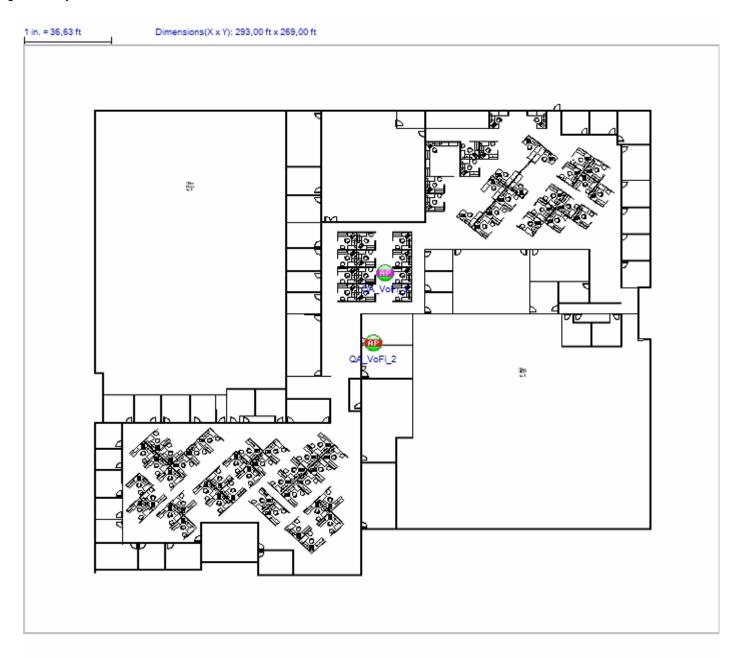
7.11 802.11ax Highest MCS Index

This requirement show which areas of the current survey report meet the requirements specified by the 802.11ax Minimum Tx MCS Index required threshold. Areas that meet the requirement are displayed in light green, whereas regions that do not meet the required MCS are displayed in a color assigned by the color-codes on the legend.

7.11.1 Overall

802.11ax Highest MCS Index			
Pass/Fail Result	N/A		
Minimum Tx MCS index required	11		

Powered by AirMagnet Page 69 of 72





Powered by AirMagnet Page 70 of 72

8 Conclusions

Overall, based on planned placement of the access points, more than % of the facility will meet the levels of RF signal strength (- dBm) and dB SNR as specified in the Statement of Work. Adjusting the scale to - dBm showed % of the entire survey area was covered at this signal strength. In testing these areas it was noted that microwaves ovens and Bluetooth devices were in use. The RF noise floor in this facility is remarkably low, showing less than - dBm.

Description	Value	Pass/Fail Result
Desired Signal Coverage	16,30% of Good Area.	Fail: 100,00% of Good Area. required to pass
Minimum AP signal strength required	-67 dBm	
Multiple AP Signal Coverage	0,00% of Good Area.	Fail: 100,00% of Good Area. required to pass
Number of APs required to provide coverage	2	
Minimum AP signal strength required to provide coverage	-67 dBm	
Channel Interference	100,00% of Good Area.	Pass: 100,00% of Good Area. required to pass
Interfered APs: Exclude APs if signal strength is weaker than	-75 dBm	
Interfering APs: Exclude APs if signal strength is weaker than	-85 dBm	
Measured PHY Data Rate Uplink Coverage	N/A	N/A
Minimum AP PHY Data Rate required	5,50 Mbps	
Measured PHY Data Rate Downlink Coverage	N/A	N/A
Minimum AP PHY Data Rate required	54,00 Mbps	
Predictive PHY Data Rate Downlink Coverage	14,10% of Good Area.	Fail: 100,00% of Good Area. required to pass
Minimum AP PHY Data Rate required	54,00 Mbps	
Signal Noise Ratio Coverage	57,30% of Good Area.	Fail: 100,00% of Good Area. required to pass
Minimum Signal Noise Ratio required	25 dBm	
Noise Level	100,00% of Good Area.	Pass: 100,00% of Good Area. required to pass
Maximum Noise Level Allowed	-90 dBm	

Powered by AirMagnet Page 71 of 72

User Capacity	N/A	N/A
Maximum Users Supported per AP	15	
With Load Balancing	True	
Operating Mode	0,00% of Good Area.	Fail: 100,00% of Good Area. required to pass
Greenfield Operating Mode	Allowed	
HT Mixed Operating Mode	Not Allowed	
VHT Mixed Operating Mode	Allowed	
HE Mixed Operating Mode	Allowed	
Legacy Operating Mode	Not Allowed	
Channel Width	0,00% of Good Area.	Fail: 100,00% of Good Area. required to pass
40 MHz Channel Width	Allowed	
20HT MHz Channel Width	Not Allowed	
20 MHz Legacy Channel Width	Not Allowed	
80 MHz Channel Width	Allowed	
160 MHz Channel Width	Allowed	
802.11n Highest MCS Index	N/A	N/A
Minimum Tx MCS index required	15	
802.11ac Highest MCS Index	N/A	N/A
Minimum Tx MCS index required	9	
802.11ax Highest MCS Index	N/A	N/A
Minimum Tx MCS index required	11	

Powered by AirMagnet Page 72 of 72