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QUESTION 1

What type of pattern matches the 12 dBi antenna displayed in the exhibit?



Figure 1

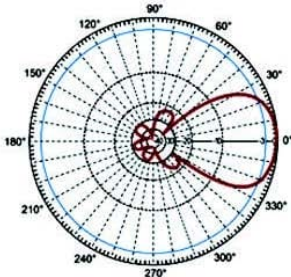


Figure 2

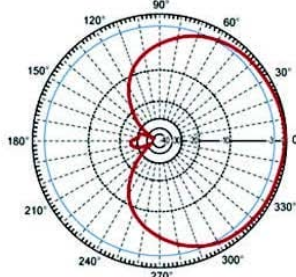


Figure 3

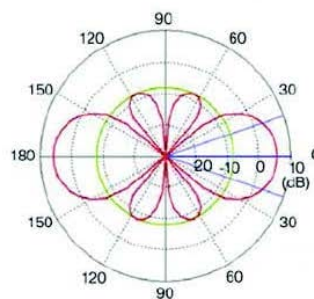
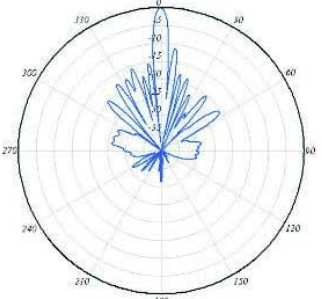


Figure 4



- A. Figure 1
- B. Figure 2
- C. Figure 3
- D. Figure 4

Correct Answer: A

QUESTION 2

At a university, the WLAN has been successfully deployed for ubiquitous access for faculty, students, and guests. Many student computer labs are available throughout the campus with wired network connectivity, but there are also a few smaller lab areas and workstations where Ethernet cabling is not available. For student wireless use, the students must authenticate against RADIUS/Active Directory using PEAP. Also, the network administrators at this university would like administrative access to these workstations when they are not in use by students so that the administrators can manage group policies, update OS patches, and perform other routine software maintenance.

What deployment options are available and recommended for both student use and remote administration of these workstations? (Choose 2)

- A. Due to the architecture of 802.1X port-based access control, it is not possible for a wireless-only computer to access network services required by network administrators in this scenario.
- B. Machine authentication accounts should be enabled to provide persistent machine network connectivity when student users are not associated.
- C. The WLAN infrastructure vendor is responsible for providing proprietary client connectivity options to facilitate device connectivity without user interaction.
- D. These workstations should be Ethernet-connected to a wireless client bridge, which will maintain network connectivity independent of student connectivity status.
- E. These stations should be deployed with dual WLAN adapters. One adapter would be used for consistent network connectivity for administrative purposes and the second adapter should be used for student access.

Correct Answer: BD

QUESTION 3

Given: As the wireless network administrator for XYZ Company, you are planning to upgrade your aging wireless network infrastructure, as well as some clients, to support 802.11n. In your research, you have discovered that your new wireless client devices and infrastructure are 802.11n, WMM, and WMM-PS certified by the Wi-Fi Alliance. Some of your existing client devices are 802.11a/b/g devices that do not support WMM.

Given this information, what scenario is possible when your company's employees begin using both types of client devices on the new WLAN?

- A. All WMM-PS certified client devices will be prevented from utilizing WMM-PS features until all stations in use on the wireless medium are WMM-PS certified.
- B. The WLAN infrastructure will set the dozing times of the WMM-PS certified client devices based upon their WMM access category, while the non-WMM-PS client devices will continue to use PS-Poll frames.
- C. Performance and battery life will be inconsistent between WMM-PS and non-WMM-PS client devices when used with applications that support WMM-PS.
- D. WMM-PS enabled APs will allow both WMM-PS and non-WMM-PS stations to use the trigger-and-delivery mechanism, but WMM-PS stations will get priority.
- E. When all STAs are using Power Save features, WMM-PS STAs will experience poor performance due to PS protection mechanisms.

Correct Answer: C

QUESTION 4

What is the purpose of Friis transmission equation $[(LdB) = 20 \log(d) + 20 \log(f) - 27.55]$?

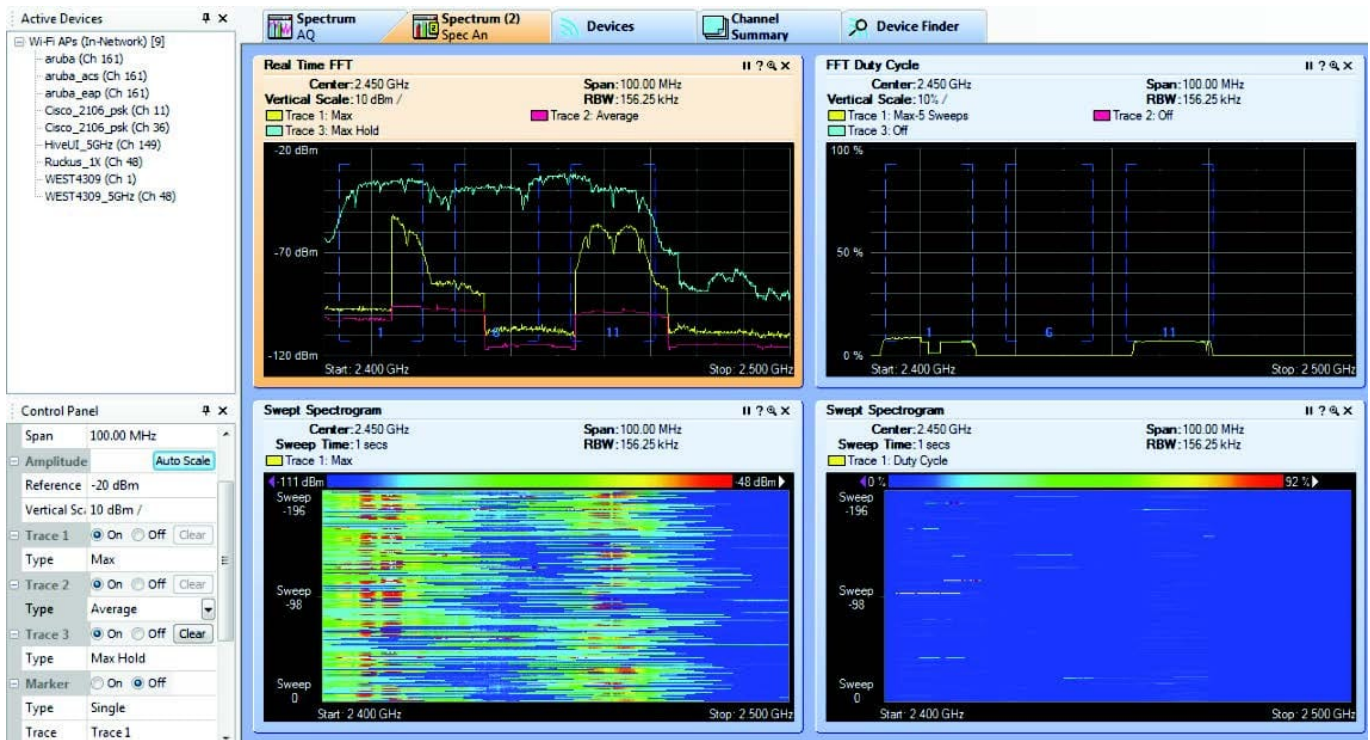
- A. Calculate earth bulge to determine minimum antenna height
- B. Calculate receive sensitivity for an 802.11 radio/antenna pair

- C. Calculate RF path loss in free space
- D. Calculate the loss experienced between the intentional radiator and antenna
- E. Calculate the minimum voltage requirements for lightning suppression systems

Correct Answer: C

QUESTION 5

Given: In a site survey deliverable report, you are expected to explain the spectrum measurements taken at the customer's site. The exhibit shows a representative sample capture of the RF environment at one of the customer sites.



What best explains the data presented in this exhibit?

- A. The Real Time FFT chart shows a high noise floor across the entire 2.4 GHz band.
- B. Channel 1 is being heavily utilized by Wi-Fi and channel 11 also has some moderate Wi-Fi activity.
- C. As indicated by the data in the Active Devices list, the spectrum analysis chipset is also reporting 802.11 information.
- D. Although some access points are present in a nearby area, they are not being heavily used.

Correct Answer: D

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