



# PW0-270<sup>Q&As</sup>

Certified Wireless Analysis Professional

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### QUESTION 1

Given the IEEE 802.11 Beacon frame decode shown,

```
network media info
  timestamp : 5/18 18:37:04.398113
  signal strength : 43% (-69 dBm)
  noise level : 0% (-95 dBm)
  frame length : 122
  data rate : 2 mbps
  channel : 3
  CRC error : no
802.11 MAC header
  frame control
    duration : 0 usec
    des: addr : FF:FF:FF:FF:FF:FF
    src: addr : 00:0D:ED:A5:4F:70
    bssid : 00:0D:ED:A5:4F:70
    frag number : 0
    seq number : 1444
802.11 frame body
  timestamp : 30B1BFA1:02000000
  beacon interval : 100 TU(s)
  capability info
  info : SSID (0)
  info : supported rates (1)
  info : DS param set (3)
    length : 1
    current channel : 1
  info : TIM (5)
  info : ERP information (42)
    length : 1
    Non-ERP station present : yes
    Use protection : yes
```

determine which statement is definitively true.

- A. The access point is operating on channel 3.
- B. The access point has both 1 Mbps and 2 Mbps configured as basic rates.
- C. This Beacon frame came from an ERP or HT access point.
- D. The SSID value in this Beacon is null.
- E. ERP mobile stations must use the RTS/CTS protocol before Data transmissions.

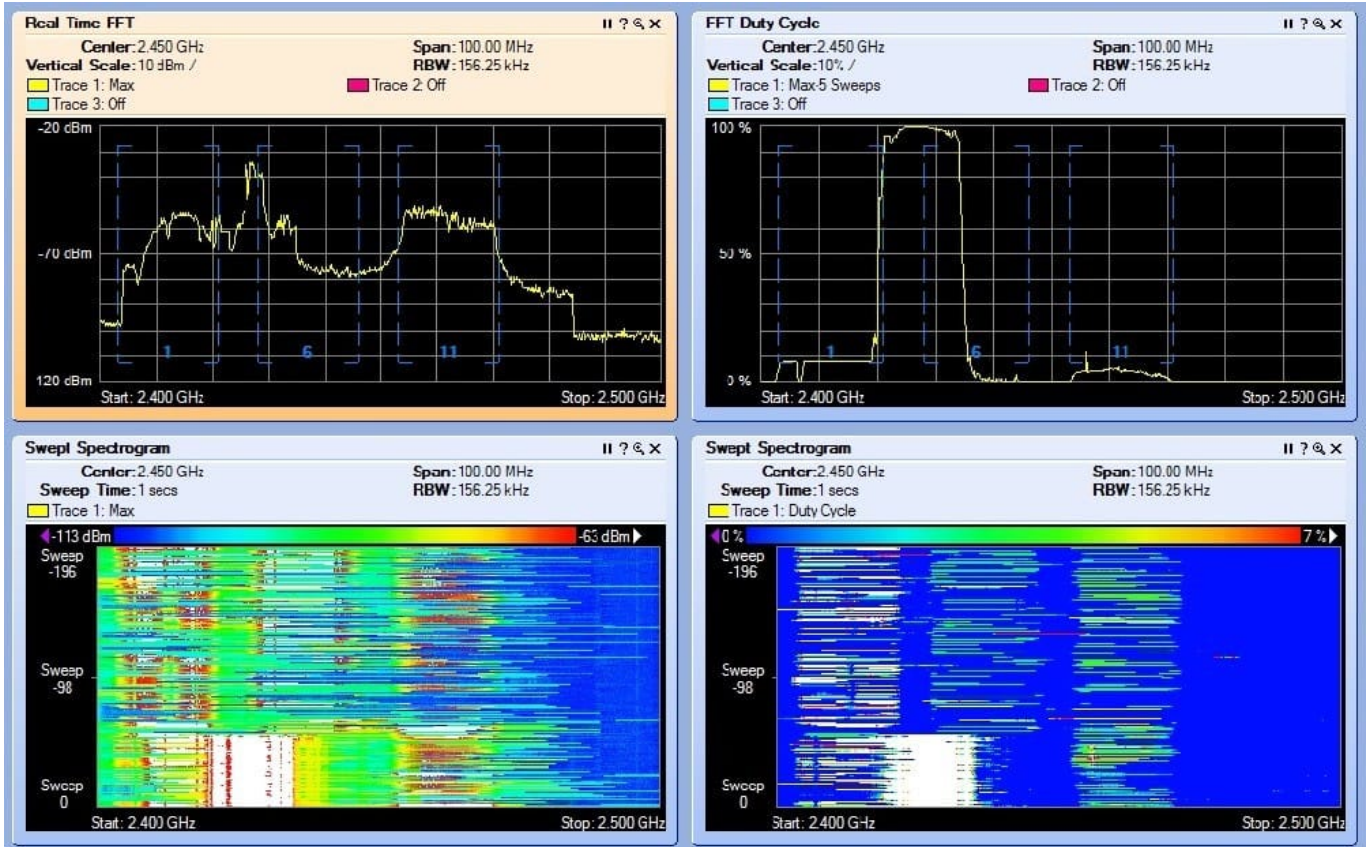
Correct Answer: C

### QUESTION 2



As shown in the exhibit, a spectrum analyzer has measured both 802.11 and non-802.11 RF transmissions in the 2.4 GHz band. The exhibit shows a continuous video transmitter near channel 5.

Based upon the exhibit,



what impact does the video transmitter have on WLAN operations throughout the band?

- A. The video transmitter is preventing WLAN operation on channel 6, and has only a minor impact on channels 1 and 11.
- B. The video transmitter has made no impact on WLAN operation in the band.
- C. The video transmitter is preventing all WLAN transmissions in the band.
- D. The video transmitter is preventing all WLAN transmissions on channel 6, and its impact on channels 1 and 11 is severe.

Correct Answer: A

### QUESTION 3

As it relates to a spectrum analyzer, complete the following sentence.

The \_\_\_\_\_ plot always displays the percentage of time (shown on the Y axis) that the overall RF power is a certain specified threshold (of amplitude) above the noise floor for a given frequency range (shown on the X axis).

- A. Real-Time FFT



- B. Swept Spectrogram
- C. FFT Duty Cycle
- D. Interferer Count
- E. SNR

Correct Answer: C

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#### QUESTION 4

Your wireless network troubleshooting kit includes an antenna with the following specifications:

Gain: 5 dBi Azimuth Beamwidth: 55 degrees Elevation Beamwidth: 50 degrees Frequency Range: 2.4 - 2.5 GHz and 4.9 - 5.9 GHz Polarization: Linear Impedance: 50 Ohms

For what aspect of network troubleshooting would this antenna be most useful?

- A. Capturing BSS-wide CRC error and retry statistics in most indoor WLAN environments
- B. Identifying problems with Fresnel zone clearance in long range (10+ miles / 16+ km) point-to-point links
- C. Finding the physical location of an interfering transmitter to identify and remove the source
- D. Increasing resolution bandwidth (RBW) on a spectrum analyzer to improve signature identification features
- E. Matching transmit and receive capabilities for most client stations to reproduce client reception issues

Correct Answer: C

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#### QUESTION 5

Given: There are many differences between analyzing wireless and wired networks. In a wireless network, there is no guarantee that one station can hear another station's transmissions. If no corrective actions are taken nor corrective mechanisms implemented when a "hidden node" problem exists, which measurable statistics parameter will likely increase in a wireless protocol analyzer?

- A. Duration value
- B. Retransmission Count
- C. Contention Window
- D. Authentication Failure
- E. BlockAck Reset
- F. ACK Timeout

Correct Answer: B

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