

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

Certified Wireless Analysis Professional

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**QUESTION 1**

ABC Company's WLAN administrator is getting complaints from one user that his WLAN throughput is sluggish compared to other users in his area. The administrator takes his diagnostics laptop, which has a wireless protocol analyzer installed, to the area where the complaining user works. The administrator uses the PING utility to test connectivity from the complaining user's wireless client station to another wireless client station across the closest access point, while capturing the wireless frames. The administrator sees what is displayed in this screenshot.

Packet	Source Physical	Dest. Physical	BSSID	Chanel	Data Rate	Size	Protocol
59	00:0D:ED:A5:47:70	FF:FF:FF:FF:FF:FF	00:0D:ED:A5:4F:70	6	1.0	137	802.11 Beacon
60	00:0D:ED:A5:47:70	FF:FF:FF:FF:FF:FF	00:0D:ED:A5:4F:70	6	1.0	137	802.11 Beacon
61	00:0D:ED:A5:47:70	FF:FF:FF:FF:FF:FF	00:0D:ED:A5:4F:70	6	1.0	137	802.11 Beacon
62	00:0D:ED:A5:47:70	FF:FF:FF:FF:FF:FF	00:0D:ED:A5:4F:70	6	1.0	137	802.11 Beacon
63	00:09:5B:66:E6:80	00:09:5B:66:E6:80	00:0D:ED:A5:4F:70	6	11.0	260	PING Req
64	00:0D:ED:A5:47:70	00:09:5B:66:E6:80		6	11.0	14	802.11 Ack
65	00:09:5B:66:E6:80	00:09:5B:66:E6:80	00:0D:ED:A5:4F:70	6	11.0	260	802.11 Frag
66	00:0D:ED:A5:47:70	00:09:5B:66:E6:80		6	11.0	14	802.11 Ack
67	00:09:5B:66:E6:80	00:09:5B:66:E6:80	00:0D:ED:A5:4F:70	6	11.0	260	802.11 Frag
68	00:0D:ED:A5:47:70	00:09:5B:66:E6:80		6	11.0	14	802.11 Ack
69	00:09:5B:66:E6:80	00:09:5B:66:E6:80	00:0D:ED:A5:4F:70	6	11.0	260	802.11 Frag
70	00:0D:ED:A5:47:70	00:09:5B:66:E6:80		6	11.0	14	802.11 Ack
71	00:09:5B:66:E6:80	00:09:5B:66:E6:80	00:0D:ED:A5:4F:70	6	11.0	136	802.11 Frag
72	00:0D:ED:A5:47:70	00:09:5B:66:E6:80		6	11.0	14	802.11 Ack
73	00:0D:ED:A5:47:70	00:09:5B:66:E6:80		6	11.0	20	802.11 RTS
74	00:09:5B:66:E6:80	00:0D:ED:A5:4F:70		6	11.0	14	802.11 CTS
75	00:09:5B:66:E6:80	00:09:5B:66:E6:80	00:0D:ED:A5:4F:70	6	54.0	1064	PING Req
76	00:09:5B:66:E6:80	00:0D:ED:A5:4F:70		6	24.0	14	802.11 Ack
77		00:09:5B:66:E6:80		6	11.0	14	802.11 CTS
78	00:09:5B:66:E6:90	23:BD:1D:66:E6:80	00:0D:ED:A5:4F:70	6	54.0	1064	PING Reply
79		00:09:5B:66:E6:80		6	24.0	14	802.11 Ack
80	00:09:5B:66:E6:80	00:09:5B:66:E6:80	00:0D:ED:A5:4F:70	6	11.0	1064	PING Reply
81	00:09:5B:66:E6:80	00:0D:ED:A5:4F:70		6	11.0	14	802.11 Ack
82	00:0D:ED:A5:47:70	FF:FF:FF:FF:FF:FF	00:0D:ED:A5:4F:70	6	1.0	137	802.11 Beacon
83	00:0D:ED:A5:47:70	FF:FF:FF:FF:FF:FF	00:0D:ED:A5:4F:70	6	1.0	137	802.11 Beacon
84	00:0D:ED:A5:47:70	FF:FF:FF:FF:FF:FF	00:0D:ED:A5:4F:70	6	1.0	137	802.11 Beacon
85	00:0D:ED:A5:47:70	FF:FF:FF:FF:FF:FF	00:0D:ED:A5:4F:70	6	1.0	137	802.11 Beacon

From this screenshot, which statements can you conclude to be TRUE that are related to the complaining user's throughput problem? (Choose 2)

- A. The complaining user's WLAN client utilities are configured with a small fragmentation threshold.
- B. The complaining user's station is retransmitting fragments many times likely due to nearby RF interference.
- C. The access point and other stations are using ERP-OFDM modulation, and the complaining user's wireless client station is using HR/DSSS modulation.
- D. The complaining user's wireless client station should be using RTS/CTS as a protection mechanism, but it is not.
- E. The access point is not signaling for protection (Protection = no) in the Beacons, but it should be.

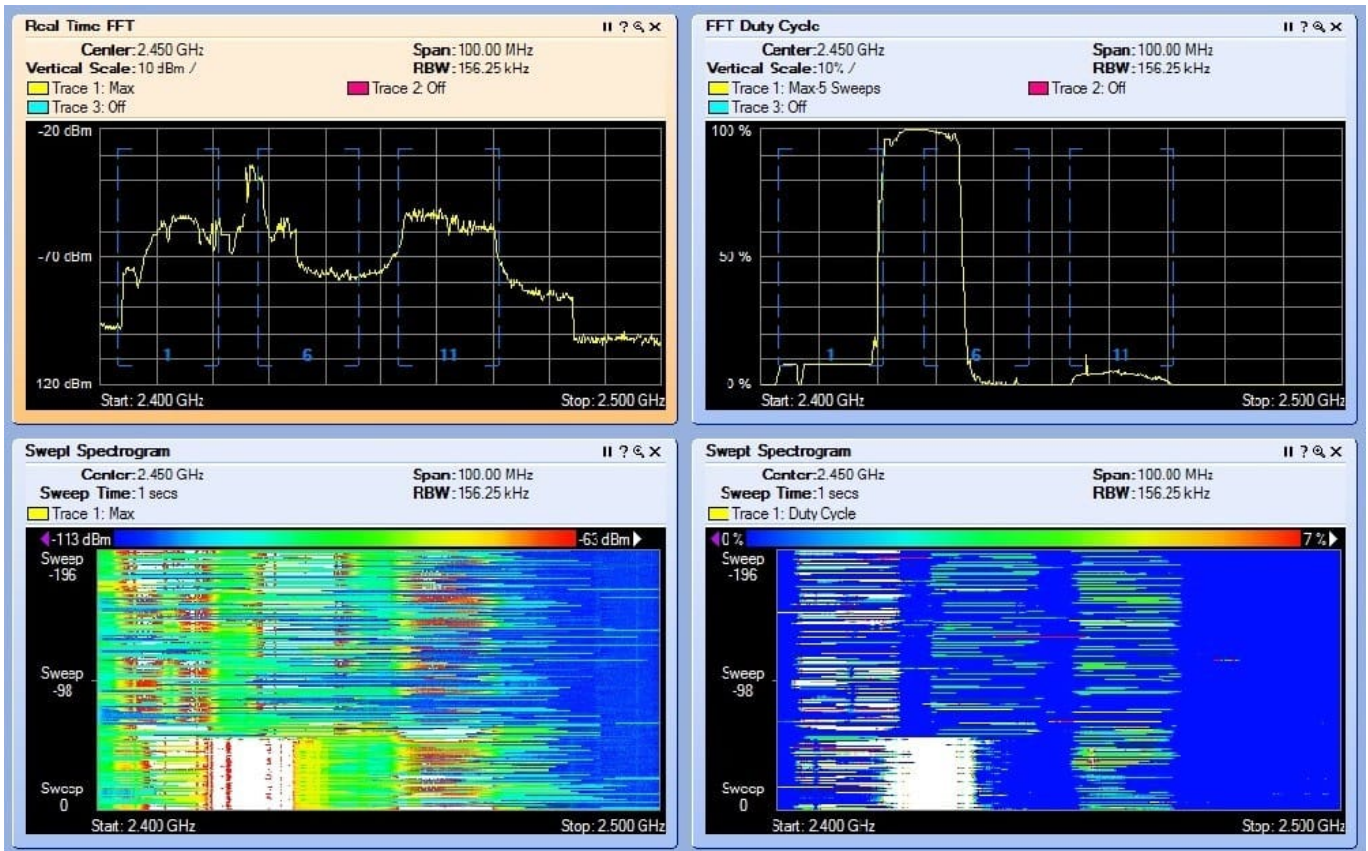
Correct Answer: AC

**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**

What two IEEE 802.11 entities may be used to separate successful transmissions within an EDCA TXOP? (Choose 2)

- A. SIFS
- B. AIFS
- C. ACK

- D. CAP
- E. PIFS
- F. EIFS
- G. RIFS

Correct Answer: AG

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#### QUESTION 4

As a WLAN consultant, you have been asked to troubleshoot a problem with a single wireless client station (Station-Z). Your customer informs you that other wireless client stations are not having problems with wireless connectivity, and that Station-Z is configured in the same manner as all other wireless client stations on the network. Station-Z is showing an unusually high retransmission count in its client utility statistics. Using a wireless protocol analyzer, where and how should you begin troubleshooting this problem? (Choose 2)

- A. Position the analyzer halfway between Station-Z and the access point. Measure the distance between Station-Z and the access point.
- B. Position the analyzer near Station-Z. Analyze Station-Z's transmissions and acknowledgements. Look for RF and obstacle-induced interference.
- C. Position the analyzer near the access point. See if Station-Z's frames are reaching the access point and if so, analyze their signal strength.
- D. Position the analyzer near Station-Z. Analyze the frames Station-Z is receiving, looking for delayed ACK frames.
- E. Position the analyzer halfway between Station-Z and the access point. Analyze the data rate at which frames are sent and how long they take to be received.

Correct Answer: BC

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#### QUESTION 5

When an originator QoS STA initiates a BlockAck agreement with a recipient QoS STA, what is the first frame sent by the originator?

- A. BlockAckSetupReq
- B. BlockAckReq
- C. ADDBA Request
- D. BlockAckPolicyReq
- E. ActionBARReq

Correct Answer: C

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