RADIO FREQUENCY INTERFERENCE CHECK – INTOXILYZER 9000

Each instrument has an RFI antenna located behind its faceplate display. Radio frequencies can interfere with breath alcohol tests so it is important to perform this check for your agency's commonly used transmission channels. During the performance of this RFI check, the .08 calibration check solution simulator shall be used in the *Proficiency Testing* mode.

Fill out the top section of the RFI Report
- Agency name
- Location
- Instrument serial number
- Your name and date

Choose common channels that your agency transmits on. Fill in Transmitter Type codes under Radio Frequency Interference Tests. Transmitter Types are as follows:
- Handheld: **HH**
- Base: **B**
- Mobile units: **M**

On the RFI report under Radio Transmission Data, enter call letters, channels, frequency (MHz), and wattage of each channel.

Use the *Proficiency Testing* mode to perform the RFI checks. Failure to use *Proficiency Testing* mode may cause the instrument to lock up. When prompted to connect a proficiency solution to the IR 9000, instead connect the .08 standard check solution.

Ensure the instrument is in "Ready Mode" to begin proficiency testing.

Check simulator temperature for proper range (33.8 to 34.2°C).

To access proficiency testing:
[Options]
Enter password [ENTER]
Hidden Menu appears
Press green 'Control Testing' button
Press green 'Proficiency Testing' button
Enter Proficiency solution number into instrument, on data sheet, and logbook

Connect simulator
Enter Agency Code: (# # A # #) [NEXT ARROW]
Enter Lot # (Solution #): (YY.MM.#) [NEXT ARROW]
Enter Operator's Last Name [NEXT ARROW]
Enter Operator's First Name [NEXT ARROW]
Enter Operator's Middle Initial [NEXT ARROW]
Enter Certification Number [NEXT ARROW]
Review/Continue: Continue will start the first Air Blank/Test

The instrument will begin with two air blanks followed by nine proficiency runs, all preceded and followed by an air blank. The instrument print out will label each proficiency run as a "Cal Check," i.e. AACACACACACACACACACA, where A= air blank and C= Proficiency.

Allow the instrument to run the first three calibration checks normally, then during the fourth (or so) calibration check, transmit an agency channel and continue to transmit a different channel during each subsequent calibration check.

Note: If the instrument stops out and gives a printout with each RFI detection, the operator must begin the Proficiency Testing mode over for each subsequent RFI check.

Enter channel numbers of each transmitter type under Channel.

(OVER)

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Under 0.08 Ethanol Results, enter the first three concentration results (in the CONTROL row) prior to testing a radio transmitter. For each radio transmitter, enter either RFI (if RFI is detected for that radio transmission) or the Ethanol concentration (e.g. .077 or .081) if RFI is not detected for a radio transmitter. Submit the RFI Report to SLD.

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AGENCY: _____

LOCATION: _____ INSTRUMENT S/N: _____

INSPECTOR: _____ DATE: _____

RADIO TRANSMISSION DATA

CALL LETTERS	CHANNEL	FREQUENCY (MHz)	WATTAGE

RADIO FREQUENCY INTERFERENCE TESTS

TRANSMITTER TYPE	CHANNEL	0.08 ETHANOL RESULTS*	REMARKS
CONTROL: run 3	**before testing RFI**		

* Ethanol results should either be aborted with RFI message or within +/- of 0.080 g/210L (0.070 – 0.090)

TRANSMITTER TYPES:

B Base
HH Handheld (Test as close to instrument as possible)
M Mobile (Test as close to instrument as possible)

In proficiency mode, initiate test. When instrument is sampling solution, activate transmitter.