

 <p align="center">Nonconformity Record Pitt County Sheriff's Office Forensics Services Unit <i>Issued by the Quality Manager</i></p>	Effective Date: 2018/04/01	Ver: 2
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NCR	19-002
<input type="checkbox"/>	Check if Customer Complaint

**Pitt County Forensic Services
NONCONFORMITY RECORD**

SECTION I

Individual and/or Laboratory	TL NH Gregory
Type of forensic analysis	Drug Chemistry
Laboratory and/or Agency Case Number (if known/applicable)	Pitt County Sheriff's Office
Date of Incident, Analysis, or Report (if known/applicable)	3-22-2019

SECTION II - Please write a *brief* statement of event(s).

As a result of the Pitt County Sheriff's Office Forensic Services Unit initial ANAB accreditation assessment, a non-conformity was issued for Standard 5.4.1.2. The Drug Chemistry Section does not have procedures for the evaluation of the unknown item to identify characteristics suitable for comparison.

SECTION III – The person identifying the NCR:

Name	Jan Girten, Lead Assessor for ANAB Audit	Date	3-22-2019
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SECTION IV – Basic fact-finding. You may use additional paper, if necessary.

The auditors did not see supporting evidence on this standard, so a non-conformity was issued as a result of the audit. The nonconformity was communicated to Drug Chemistry Technical Leader Nancy Gregory via the Audit Objective Evidence closing report issued before the audit team left the laboratory.

Quality Manager/Technical Leader	TL Nancy Gregory			Date	3-26-19
Further Action Requested?	Yes	X	No		

Explanation:

The ANAB standard 5.4.1.2 requires an evaluation of data from unknowns that will be compared to knowns (GCMS and IR) to be evaluated prior to comparison. Currently there are no instructions in the GCMS or FTIR technical procedures to describe how to identify spectra of sufficient quality prior to searching the unknown against a library of standards.

The Drug Chemistry Technical Procedure for Gas Chromatograph/Mass Spectrometry (GC-MS) will be revised to include the

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following statement:

"The evaluation of an unknown substance (to include the assessment of peaks in the total ion chromatogram (TIC), signal/noise ratio, relative abundance, mass fragmentation pattern/ion distribution, and retention time) shall be evaluated to ensure the data is of sufficient intensity to make an accurate comparison prior to comparison to known reference standards or published spectral data."

The Drug Chemistry Technical Procedure for Infrared Spectroscopy will be revised to include the following statement:

"The spectral peaks obtained from an unknown shall be evaluated prior to comparison to ensure they are of sufficient intensity to make an accurate comparison to known reference standards or published spectral data."