



<b>NAME:</b>	Valerie L. Coronado	<b>DATE:</b>	9/10/2021
<b>LABORATORY:</b>	Houston Forensic Science Center		
<b>JOB TITLE:</b>	Forensic Analyst		

Indicate all disciplines in which you do casework:

<input type="checkbox"/>	Seized Drugs	<input type="checkbox"/>	Forensic Biology/DNA
<input type="checkbox"/>	Crime Scene	<input type="checkbox"/>	Latent Prints
<input type="checkbox"/>	Digital Forensics	<input checked="" type="checkbox"/>	Toxicology
<input type="checkbox"/>	Firearms	<input type="checkbox"/>	Forensic Audio/Video

List all categories or sub-disciplines in which you do casework:

Human Performance Toxicology: Alcohol Analysis, Enzyme-Linked Immunosorbent Assay (ELISA), Drug Screen and Qualitative Confirmation by GC-MS, and Carisoprodol/Meprobamate Confirmation by GC-MS
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**Texas Forensic Science Commission (TFSC) Licensing**

Per TFSC section 651.203, starting January 1, 2019, the following disciplines are subject to licensing: Seized Drugs, Toxicology, Forensic Biology & Firearms/Toolmarks. If applicable, select the type of license issued by TFSC (Select N/A if not applicable):

<b>Type of License:</b>	Toxicologist (Interpretative)
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**Certifications:**

Organization	Discipline	Type/Level (N/A if not applicable)
N/A		

**Education:**

List all higher education institutions attended (list high school if no college degree has been attained)

Institution	Dates Attended	Major	Type of Degree Earned
Sam Houston State University	August 2012-May 2016	Chemistry	Bachelor of Science
Sam Houston State University	August 2016-May 2018	Forensic Science	Master Degree

**Other Training:**

List continuing education, workshops, in service, and other formal training received. Please include the course title, source, and dates of training.

<p><b>Forensic Science Internship</b>, Houston Forensic Science Center (May 2017-August 2017)</p> <p><b>Introduction to Uncertainty in Forensic Chemistry and Toxicology</b>, RTI International (February 20, 2018)</p> <p><b>SOP Writing for ISO 17025 Accreditation</b>, RTI International (March 20, 2018)</p> <p><b>Forensic Pharmacology</b>, The Center for Forensic Science Research and Education (November 5-7, 2018)</p>
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**The Robert F. Borkenstein Course of Alcohol and Highway Safety: Testing, Research and Litigation**, Indiana University (December 2-7, 2018)  
**Introduction to Liquid Chromatography-Mass Spectrometry/Mass Spectrometry with applications to Forensic Chemistry**, Houston Forensic Science Center (December 3, 12-13, and 17, 2019)  
**Cannabis Impaired Driving: Where Are We In 2020?**, Society of Forensic Toxicologists (September 22, 2020)  
**GC-MS and LC-MS/MS Method Development – A Step by Step Guide**, Society of Forensic Toxicologists (September 24, 2020)

**Courtroom Experience:**

List the disciplines/sub-disciplines in which you have testified as an expert witness and indicate over what time period and approximately how many times you have testified in each.

Discipline or Sub-Discipline	Time Period	Times Testified
Alcohol Analysis	February-March 2021	2

**Professional Affiliations:**

List any professional organizations of which you are or have been a member. Indicate any office(s) or positions held and the dates of these activities.

Organization	Member Status & Position(s) Held	Dates of Membership
Society of Forensic Toxicologists	Full Member	October 2020-Present

**Employment History:**

List all scientific or technical positions held, particularly those related to forensic science. List current position first. Be sure to indicate employer and give a brief summary of duties. Please list your dates of employment by month and year.

<b>Job Title:</b>	Forensic Analyst	<b>Dates of Employment:</b>	June 4, 2018-Present
<b>Employer:</b>	Houston Forensic Science Center		

**Provide a brief description of duties below:**

Perform alcohol analysis on blood and liquid samples, drug screening by enzyme-linked immunosorbent assay (ELISA) on blood and urine samples, drug screen and qualitative confirmation analysis by GC-MS on blood and urine samples, and carisoprodol/meprobamate confirmation analysis by GC-MS on blood and urine samples. Review analytical data, write technical reports for alcohol, ELISA, and GC-MS methods, provide court testimony on results and interpretation for alcohol analysis, ELISA drug screening, and GC-MS analysis. Perform technical and administrative review for alcohol reports; perform technical review for ELISA batches.

**Other Qualifications:**

List below any scientific papers authored or co-authored and/or scientific presentations given, research in which you have been involved, academic or teaching positions you have held, and any other information you consider relevant to your qualification as a forensic scientist.

**Academic/Teaching Positions:**

**Graduate Research Assistant**, Sam Houston State University, January 2017-May 2018

- Teaching Assistant for Crime Scene Investigation course
- Prepared laboratory for DNA and toxicology courses



**Research Assistant**, Sam Houston State University, June 2015-May 2016

- Analyzed samples using HPLC and GC-MS instrumentation
- Interpreted data from drug developmental studies

Research Experience:

**Heated Headspace SPME coupled with GC-MS for the Screening of Residual Emerging Psychoactive Compounds in the Oral Cavity**, MSFS Second Year Capstone Research Project, August 2017-May 2016

**Method Development and Optimization for Detection of a Novel Cyanide Antidote in Brain by GC-MS and *in vivo* investigations (efficacy and pharmacokinetics) with a New Cyanide Antidote**, Undergraduate Research Projects, June 2015-May 2016