

Comprehensive Onsite Specific Experience

<u>Customer</u>	<u>Application</u>	<u>Description</u>
Abbott Vascular	Headspace	Pharmaceutical Methods & Validation Protocols
Adams Vegetable Oils	Very High Resolution GC	Fatty Acid Methyl Esters (FAMES) for trans fats
AgroFresh	EPA TO-15	Air toxics in canisters by GCMS
Allergan	Headspace	GC OpenLab for pharmaceutical protocols
Allied Petrochemical	ASTM D5769	Total Aromatics in Finished Gasoline
America West Analytical Labs	EPA 8270	8270/3511 reduced solvent prep approach
American Radiation Services	EPA 8270	8270 by cool inlet large volume injection
Arizona Dept of Health	FDA Pesticides/8270	928 Pesticides in food by deconvolution/rtl
Armstrong World Industries	GC & GCMS Methods	Application specific for polymer chemistry
Baltimore Police Dept	GC & GCMS Validation	Design, implementation and writing of Crime Lab Validation document
Bear Tracker Energy	GC	GC Analyzer for LPG & NGA
Bigelow Aerospace	GCMS Air Toxics	Thermal Desorption analysis of enclosed space toxics
Biomarin Pharmaceuticals	GC	Development of USP methodology for Glycerine analysis
Boston Heart	Organic Acids	GCMS method optimization for cardiac & lipid specific organic acids
Brazoria County Sheriff Office	Forensic/Toxicology	>700 narcotics by deconvolution/rtl
Broward County Medical Examiner	Forensic/Toxicology	>700 narcotics by deconvolution/rtl
Brown-Foreman	Distillery	SPME GCQQQ for ppt odorants and DGBME (Butoxyethoxy) ethanol
CarbonLite Industries	Headspace	Headspace method development and performance verification
Cargill Foods	GCMS Onsite Training	MassHunter acquisition, qualitative & quantitative data analysis
Cepheid Inc	GCMS	Method optimization for product materials testing.
ChemHistory	EPA Residual Pesticides/8270	Trace pesticide in sativa by GCQQQ
Chevron Phillips Chemicals	GC & GCMS	Problem solving, troubleshooting and instrument optimization
Chevron Products	GC	Oxygenates in finished gasoline and synthetic fuel products
ChromaDex	Headspace USP 457	Residual solvent in bulk materials
CHS McPherson	EPA 8260	Method 8260 compound in refinery processes
City of Dallas Sanitation	USEPA 624	EPA Method 624 by purge & trap
City of Honolulu	EPA 8260 & 8141	VOC compounds in water/wastewater
City of Honolulu Water & Wastewater	USEPA 504.2	EPA Method 504.2 by GC-ECD
City of Houston HPD Crime Lab	GC Narcotics	Codiene in aqueous matrices
City of Los Angeles	EPA 524.2	Drinking water
City of Phoenix	EPA 8260/524.3	VOC's in drinking water
City of Phoenix Crime Lab	Forensic/Toxicology	>700 narcotics by deconvolution/rtl
City of Phoenix Water Services Lab	USEPA 625	GCMS with MMI (5977 GCMS with Multi Mode Inlet)

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City of Sacramento	EPA 8260	VOC's in water/wastewater
City of Sacramento	EPA 8270	Semi-volatiles in water/solid matrices
City of Scottsdale	EPA 8260/524.2	Water/wastewater
City of Scottsdale	EPA 8270/625	Water/wastewater
City of Tacoma	EPA 8260/524.2	Water/drinking water
City of Tucson Police Dept Crime Lab	Crime Lab	Evidentiary narcotic analysis by GCMS
City of Tulsa Police Dept	Crime Lab	Evidentiary narcotic analysis by GCMS
Clinical Metabolomics (ClinMet)	Organic Acids	Method development for GCMS assay of 31 organic acids in neonatal fluids
Coca-Cola	GC & GCMS	Method optimization for product materials testing/screening (QA/QC)
Colorado Springs Police Dept	Criminology/Forensics	GCQQQ Training and method implementation
Comprehensive Pain Management	Toxicology/ Patient Monitoring	Patient monitoring for pain management narcotics. GCMS-DRS
County of Pinellas Forensic Laboratory	Forensic/Toxicology	>700 narcotics by deconvolution/rtl
Crosstex Energy Services	LPG Analyzer	GC for automated LPG analysis
Dakota Gasification Co.	USEPA 8260	Volatiles in coal gasification processes
Dartmouth Health/Diagnostics	Headspace	Clinical Headspace of plasma for VOC's
Denver Dept of Agriculture	FDA Pesticides/8270	928 Pesticides in food by deconvolution/rtl
Denver Metro Wastewater	EPA8260/624	Water/wastewater
Fitbit, Inc.	GCMS	Lechate product testing
Flint Hills Resources	ASTM D5769	Total Aromatics in Finished Gasoline
Forensics Analytical Services	Forensic/Toxicology	>700 narcotics by deconvolution/rtl
Full Sail Brewing	Headspace	VOCs/Diacetyl in fermentation matrix
Gas Solutions	GC OpenLab	LPG/BTU Analyzer setup & training
Goodyear Tire & Rubber Co	GC OpenLab	Method transfer, optimization and training
Hennipen Medical	Headspace	Clinical Headspace of plasma for VOC's
Herbalife International	Headspace	GCMS residual solvents in products and bulk matrices
Hewlett-Packard	Fire Retardants	Brominated fire retardants in polymer-based products by GCMS
Honeywell International	Product Testing	Method development for product testing by GCMS
Houston Forensic Science LGC	Forensic/Toxicology	>700 narcotics by deconvolution/rtl
Inland Empire	EPA 524.2/624	Water/wastewater VOC's
Invista-Dupont Chemical	GC & GCMS Polymer	Residual and polymer impurity method development and optimization
Jackson Madison County General Hospital	Workplace Drug Screening	Drug quantification for workplace screening and probation monitoring
Jordan Valley Water	EPA 8260/524.2	Water/drinking water
Kaiser Permanente Healthcare	Toxicology/ Patient Monitoring	Patient monitoring for pain management narcotics. GCMS-DRS
Kansas State University	AMDIS Deconvolution	GCMS deconvolution training & method development
Kirkman Group	FDA Pesticides/8270	928 Pesticides in food by deconvolution/rtl
LA County Sanitation Districts	EPA 608.3	Wastewater pesticides

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Liquid Environmental Solutions	PCBS in Recycled Oil	PCB's in oil by GC-ECD OpenLab
Lorco Petroleum Services	PCBS in Recycled Oil	PCB's in oil by GC-ECD OpenLab
MAP Pharmaceuticals	Headspace USP 457	Residual solvent in bulk materials
MAP Pharmaceuticals	Headspace & GC	Optimization of headspace and GC methods with training.
Marathon Petroleum	ASTM D5769	Total Aromatics in Finished Gasoline
Mayo Clinic	Toxicology/ Patient Monitoring	ER patient monitoring for pain management narcotics. GCMS-DRS
Mellor Engineering, Inc.	CWA by GCMS	Chemical warfare agents by thermal desorption GCMS
Metro Water District of So. Calif	Headspace SPME	Headspace of drinking water odorants
Miami-Dade Water & Sewer	USEPA Method 502.2	GC OpenLab with OI Analytical tandem detectors and purge & trap
Moore Twining Associates	Environmental	GCMS methods optimization for EPA methodologies
Napa Valley Think Tank	TCA in Wine	Trichloroanisole ppt assay in corks and pressed grape juice by SPME-GCMS
National Institute of Standards & Testing (NIST)	GC 7 GCMS	Multi-dimensional GC method development and GCMS training
National Medical Services (NMS)	GCMS of THC	Multi-dimensional GCMS for trace THC in whole blood
New York City Dept of Environmental Protection	USEPA	Optimization and training on new GCMS equipment
New York State Police	Crime & Forensic Lab	Forensic toxicology and evidentiary narcotic methods optimization
North Carolina Dept of Agriculture	FDA Pesticides/8270	928 Pesticides in food by deconvolution/rtl
NOW Foods	Essential Oils	Essential oil analysis in health supplements by GCMS-FID tandem
Oak Ridge National Laboratory -DOE	Trace Radioisotopes	Low level radioisotopes of iodine in surface waters
Office of the Medical Examiner Washington DC	GCQQQ THC Metabolites	THC Metabolites in whole blood by GCQQQ
Oklahoma Dept of Environmental Quality	8260/524.3	Water, wastewater, solid matrices by purge & trap
Oklahoma Dept of Environmental Quality	8270	8270 by Multi-mode Inlet programmable PTV
Oklahoma State Bureau of Investigation	GCMS of THC	Multi-dimensional GCMS for trace THC in whole blood
Onyx Pharmaceuticals	Headspace	GCMS residual solvents in products and bulk matrices
Oxy Vinyls, LP	Dioxins & Furans	Low level chlorinated dioxins and furans in process waters by GCMS
Pacific Coast Canola	Very High Resolution GC	Fatty Acid Methyl Esters (FAMES) for trans fats
Pentair Testing	Total Petroleum hydrocarbons	TPH by Texas Method 1005 GCMS. Method development & implementation
Pima County Wastewater	524.2/624	Wastewater by purge & trap
PolyOne Corp.	Polymers	GC OpenLab Training for product testing
Puerto Rico AAA	525.2	8270 type configuration & compound list
Puerto Rico AAA	524.3	8260 type configuration & compound list
Rice University	Pyrolysis	High temperature pyrolyzer by GCMS. Method development and training
Sanford USD Medical Center	GC OpenLab	GC OpenLab method optimization & Training
Scottsdale Police Dept Crime Lab	Crime Lab	GCMS method optimization for trace fire debris analysis
SGS North America	ASTM D5769	Total Aromatics in Finished Gasoline
Solvay USA	Headspace USP 457	Residual solvent in bulk materials

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Southern Petroleum Laboratories	ASTM D5769	Total Aromatics in Finished Gasoline
Southwest Research Institute	Thermal Desorption	GCMS-TD of residual diesel particulate by PTV.
State of California Dept of Toxic Substances Control	GCQQQ	GCQQQ and GCMS for low level toxic substance analysis in heavy matrix
State of Hawaii Dept of Public Safety	Headspace	Ethanol in alcoholic beverages by GC-FID
State of Mississippi Dept of Environmental Quality	GCQQQ	USEPA 8081 organochlorine pesticides by GCQQQ
State of Montana Dept of Justice	Forensic/Toxicology	>700 narcotics by deconvolution/rtl
State of North Dakota Crime Lab	GCQQQ	Low level narcotics in fluids.
Suncor Energy USA	USEPA 8260	GCMS EPA 8260 by purge & trap in refinery process
Sutter Homes Winery	Headspace	VOC constituents in grapes & grape juice
Sutter Homes Winery	Pesticides in Grape Juice	Residual pesticides in grape juice. GCMS Pal autosampler.
Tesoro Refinery	D3605 Analyzer	GC OpenLab method optimization & Training for benzene in finished gasoline
Texas Dept of Public Safety	Headspace	Blood Alcohol Analyzer by GCMS-FID
Texas Dept of Public Safety	Forensic/Toxicology	>700 narcotics by deconvolution/rtl
Texas Southern University	GC, GCMS Headspace	Method development and training in forensic applications
Thorne Products	Headspace USP 457	Residual solvent in bulk materials
Thorne Research Inc	Headspace USP 457	Residual solvent in bulk materials
UC Davis	GCMS-LVI	Very low level brominate fire retardants in infant fluids by LVI-GCMS
University of Minnesota	Air Toxics	Air toxics in automotive exhausts by thermal desorption PTV
University of Virginia	Drug Analysis	Medical center drug analysis quantitation by GCMS
US Customs & Border Protection El Paso	Trace Narcotics	GCMS training and methodology transfer
US Customs & Border Protection Savannah	Trace Narcotics & Pesticides	Synthetic cannabinoids, pesticides in various matrices by GCMS
US Drug Enforcement Administration	Narcotics	Narcotics by GC & GCMS. Methods transfer & training
US Geological Survey	8260C	US surface waters for VOC's
USDA Marcopa	Pesticides	Pesticides and toxic substances by GCMS
USEPA Chelmsford MA	GCMS	EPA 8270 instrument optimization
USFDA Atlanta	FDA Pesticides/8270	928 Pesticides in food by deconvolution/rtl
USFDA Litterlock AR	FDA Pesticides/8270	928 Pesticides in food by deconvolution/rtl
Valero Energy Corp	ASTM D5769	Total Aromatics in Finished Gasoline
Ventura County Crime Lab	Forensic/Toxicology	>700 narcotics by deconvolution/rtl
Ventura County Crime Lab	Blood Alcohol	Blood alcohol by GC-FID Headspace
W2 Fuels	Biofuels	Biofuel constituents by GC-FID and GCMS headspace
Western Research Institute	GCMS	Method transfer, optimization, application support & training
Wilmar Oil & Fats	Trans Fatty Acids	Fatty Acid Methyl Esters (FAMES) for trans fats in Palm Oils
Wisconsin Diagnostic Labs	Headspace	Clinical Headspace of plasma for VOC's