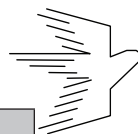




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Service Schedule

Merlin MicroScience



Consolidated Sciences

Matrix	Analyte
Acetylene, C ₂ H ₂	Argon/Oxygen (Ar/O ₂)
	Arsine (AsH ₃)
	Carbon dioxide (CO ₂)
	Carbon monoxide (CO)
	Hydrocarbon Speciation
	Mercury (Hg)
	Methane (CH ₄)
	Nitrogen (N ₂)
	Phosphine (PH ₃)
	Sulfur Speciation
Alcohols	2-Methyl-1-butanol
	2-Methyl-2-butanol
	3-Methyl-2-butanol
	Acetone
	Ethanol
	Methanol
Amines	2-(¹ H-indol-3-yl)-N,N-Dimethylethanamine
	Dimethylamine ((CH ₃) ₂ NH)
	Methylamine (CH ₃ NH ₂)
	n,n-Dimethylethylamine (C ₄ H ₁₁ N)
	n-Methylethanamine
	Trimethylamine (N(CH ₃) ₃)
Ammonia, NH ₃	Argon/Oxygen (Ar/O ₂)*
	Carbon dioxide (CO ₂)
	Carbon monoxide (CO)*
	Chloride (Cl ⁻)
	Hydrocarbons C ₂ -C ₅
	Hydrogen (H ₂)
	Metals

Matrix	Analyte
Ammonia, NH ₃	Methane (CH ₄)
	Nitrogen (N ₂)*
	Non-volatile residue
	Oil
	Particles
	Water vapor (H ₂ O)
Argon, Ar	Carbon dioxide (CO ₂)
	Carbon monoxide (CO)
	Helium (He)
	Hydrocarbons C ₂ -C ₅
	Hydrogen (H ₂)
	Methane (CH ₄)
	Nitrogen (N ₂)
	Nitrous oxide (N ₂ O)
	Oxygen (O ₂)
	Water vapor (H ₂ O)
Arsine, AsH ₃	Argon/Oxygen (Ar/O ₂)
	Carbon dioxide (CO ₂)
	Carbon monoxide (CO)
	Carbonyl sulfide (COS)
	Germane (GeH ₄)
	Hydrocarbons C ₂ -C ₅
	Hydrogen (H ₂)
	Hydrogen sulfide (H ₂ S)
	Methane (CH ₄)
	Nitrogen (N ₂)
	Phosphine (PH ₃)
	Silane (SiH ₄)
Water vapor (H ₂ O)	

Matrix	Analyte
ASTM D-2424 (Olefins)	C _n H ₂ n-4
	C _n H ₂ n-6
	C _n H ₂ n-8
	Heavy alkylate
	Mono-olefins
	Olefins
	Paraffins
Atmospherics	Argon (Ar)
	Argon/Oxygen (Ar/O ₂)
	Carbon dioxide (CO ₂)
	Carbon monoxide (CO)
	Helium (He)
	Hydrogen (H ₂)
	Krypton (Kr)
	Methane (CH ₄)
	Neon (Ne)
	Nitrogen (N ₂)
	Nitrogen dioxide (NO ₂)
	Nitrous oxide (N ₂ O)
	Oxygen (O ₂)
	Ozone (O ₃)
	Water vapor (H ₂ O)
	Xenon (Xe)
Boron Trichloride, BCl ₃	Argon (Ar)
	Carbon dioxide (CO ₂)
	Carbon monoxide (CO)
	Hydrochloric acid (HCl)
	Nitrogen (N ₂)
	Oxygen (O ₂)

Matrix	Analyte
Boron Trichloride, BCl ₃	Phosgene (COCl ₂)
	Tetrachlorosilane (SiCl ₄)
	Water vapor (H ₂ O)
Boron Trifluoride, BF ₃	Argon (Ar)
	Argon/Oxygen (Ar/O ₂)
	B ₁₀ Isotope
	Carbon dioxide (CO ₂)
	Carbon monoxide (CO)
	Carbon monoxide/Nitrogen (CO/N ₂)
	Difluoroboric acid (HBF ₄)
	Fluorine (F)
	Hydrochloric acid (HCl)
	Hydrogen (H ₂)
	Methane (CH ₄)
	Nitrogen (N ₂)
	Oxygen (O ₂)
	Sulfur dioxide (SO ₂)
	Tetrachlorosilane (SiCl ₄)
Water vapor (H ₂ O)	
C ₁ -C ₆ Hydrocarbons	2,3-Dimethylbutane (diisopropyl) (C ₆ H ₁₄)
	2-Methylbutane (<i>iso</i> -pentane, methylbutane) (C ₅ H ₁₂)
	3-Methylpentane (C ₆ H ₁₄)
	Butane (C ₄ H ₁₀)
	C ₂ Hydrocarbons
	C ₃ Hydrocarbons
	C ₄ Hydrocarbons
	C ₅ Hydrocarbons
	C ₆ Hydrocarbons
	C ₆ + Hydrocarbons
	Ethane (C ₂ H ₆)
	Ethylene (C ₂ H ₄)
	Hexane (<i>n</i> -hexane) (C ₆ H ₁₄)
	<i>iso</i> -Butane (C ₄ H ₁₀)

Matrix	Analyte
C ₁ -C ₆ Hydrocarbons	Methane (CH ₄)
	Pentane (<i>n</i> -pentane) (C ₅ H ₁₂)
	Propane (C ₃ H ₈)
	Propylene (C ₃ H ₆)
Carbon Dioxide, CO ₂	Amines
	Ammonia (NH ₃)
	Carbon monoxide (CO)
	Cyclopropane
	Di-ethanolamine
	Ethanal (acetaldehyde) (CH ₃ CHO)
	Ethenyl acetate (vinyl acetate) (C ₄ H ₆ O ₂)
	Ethylene
	Formaldehyde (CH ₂ O)
	Hydrocarbons C ₂ -C ₅
	Hydrogen (H ₂)
	Methane (CH ₄)
	Mono-ethanolamine
	Nitric oxide (NO)
	Nitrogen (N ₂)
	Nitrogen dioxide (NO ₂)
	Oxirane (ethylene oxide) (C ₂ H ₄ O)
	Oxygen (O ₂)
	Sulfur dioxide (SO ₂)
	Tri-ethanolamine
Water vapor (H ₂ O)	
Carbon Monoxide, CO	Carbon dioxide (CO ₂)
	Hydrocarbons C ₂ -C ₅
	Hydrogen (H ₂)
	Iron carbonyl (Fe(CO) ₅)
	Methane (CH ₄)
	Molybdenum carbonyl (Mo(CO) ₆)
	Nickel carbonyl (Ni(CO) ₄)

Matrix	Analyte
Carbon Monoxide, CO	Nitrogen (N ₂)
	Oxygen (O ₂)
	Water vapor (H ₂ O)
Carbon Tetrafluoride, CF ₄	Carbon dioxide (CO ₂)
	Carbon monoxide (CO)
	Hydrogen (H ₂)
	Nitrogen (N ₂)
	Other CFCs
	Oxygen (O ₂)
	Sulfur hexafluoride (SF ₆)
	Water vapor (H ₂ O)
Carbonyls	Nickel carbonyl (Ni(CO) ₄)
	Iron carbonyl (Fe(CO) ₅)
Chlorine, Cl ₂	Argon (Ar)
	C ₁ -C ₂ Hydrocarbons
	Carbon dioxide (CO ₂)
	Carbon monoxide (CO)
	Chloroform (trichloromethane) (CHCl ₃)
	Hydrochloric acid (HCl)
	Nitrogen (N ₂)
	Oxygen (O ₂)
	Phosgene (COCl ₂)
	Tetrachloromethane (carbon tetrachloride) (CCl ₄)
Water vapor (H ₂ O)	

Matrix	Analyte
Deuterated Silane, SiD ₄	Argon (Ar)
	Deuterated arsine (AsD ₃)
	Deuterated disilane (Si ₂ D ₆)
	Deuterated selenium
	Germane (GeH ₄)
	Hydrocarbons
	Methylsilane (CH ₃ SiH)
	Nitrogen (N ₂)
	Oxygen (O ₂)
	Phosgene (COCl ₂)
	Triethoxy(ethyl)silane (C ₂ H ₅ Si(OC ₂ H ₅) ₃)
Deuterium, D ₂	Hydrogen (H ₂)
	Hydrogen deuteride (H[₂ H])
Dichlorosilane, DCS	Chlorosilane
	Dichlorosiloxane
	Hydrogen chloride (HCl)
	Monochlorosilane
	Trichlorosilane
	Water vapor (H ₂ O)
Disilane	Helium (He)
	<i>iso</i> -Pentasilane
	<i>iso</i> -Tetrasilane
	<i>neo</i> -Pentasilane
	<i>n</i> -Pentasilane
	<i>n</i> -Tetrasilane
	Silane (SiH ₄)
	Trisilane
	Water vapor (H ₂ O)
Ethylene Oxide	1-Butene
	Chloroethene
	Cyclopropane
	Isobutane (C ₄ H ₁₀)

Matrix	Analyte	
Ethylene Oxide	<i>n</i> -Butane	
	Propane	
	Propylene	
Fuel Gas	Argon/Oxygen (Ar/O ₂)	
	BTU/scf	
	Butane (<i>n</i> -butane) (C ₄ H ₁₀)	
	C ₆ Hydrocarbons	
	C ₇ + Hydrocarbons	
	C ₈ Hydrocarbons	
	Carbon dioxide (CO ₂)	
	Fuel Gas	Ethane (C ₂ H ₆)
		Hydrogen (H ₂)
Ideal Gravity		
Ideal Gross BTU		
Methane (CH ₄)		
Methylbutane (<i>iso</i> -pentane)(C ₅ H ₁₂)		
Methylpropane (<i>i</i> -butane, <i>iso</i> -butane) (C ₄ H ₁₀)		
Neopentane (C ₅ H ₁₂)		
Nitrogen (N ₂)		
Pentane (<i>n</i> -pentane)(C ₅ H ₁₂)		
Propane (C ₃ H ₈)		
Germane, GeH ₄		Chlorogermans
	Digermane (Ge ₂ H ₆)	
	Germoxanes	
	Trigermane (Ge ₃ H ₈)	
	Unknown germane compounds	
Helium, He	Argon (Ar)	
	Argon (Ar)	
	C ₁ -C ₆ Hydrocarbons	
	Hydrogen (H ₂)	
	Nitrogen (N ₂)	
	Oxygen (O ₂)	

Matrix	Analyte
Hydrocarbons*	1,3-Butadiene & Methylacetylene
	1,3-Butadiene (C ₄ H ₆)
	1-Pentene (C ₅ H ₁₂)
	2,2-Dimethyl-butane
	2,2-Dimethyl-pentane
	2,3-Dimethyl-butane
	2,3-Dimethyl-pentane
	2,4-Dimethyl-pentane
	2-Methyl-hexane
	2-Methyl-pentane
	2-Methylpropene (<i>iso</i> -butene, <i>iso</i> -butylene) (C ₄ H ₈)
	3,3-Dimethylpentane
	3-Methyl-hexane
	3-Methyl-1-butene
	3-Methyl-pentane
	Acetylene (C ₂ H ₂)
	Benzene
	But-1-ene (1-butene) (C ₄ H ₈)
	Butene-1
	C ₁ -C ₆ Hydrocarbons
	C ₂ Hydrocarbons
	<i>cis</i> -2-Butene
	C ₃ Hydrocarbons
	C ₄ Hydrocarbons
	C ₅ Hydrocarbons
	C ₆ + Hydrocarbons
	C ₈ + Hydrocarbons
	<i>cis</i> -2-Pentene
	Cyclohexane
	Cyclopropane (C ₃ H ₆)
	Ethane (C ₂ H ₆)
	Ethylacetylene
	Ethylene (ethene) (C ₂ H ₄)

*Hydrocarbon analyses available at ppm, ppb, and mol % levels.

Matrix	Analyte
Hydrocarbons*	Hexane (<i>n</i> -hexane) (C ₆ H ₁₄)
	Hexanes
	<i>i</i> -Butane
	<i>i</i> -Pentane
	<i>iso</i> -Butane (C ₄ H ₁₀)
	<i>iso</i> -Butylene
	<i>iso</i> -Pentane (methylbutane) (C ₅ H ₁₂)
	Methane (CH ₄)
	Methylcyclopentane
	<i>n</i> -Butane (C ₄ H ₁₀)
	<i>neo</i> -Pentane
	<i>n</i> -Heptane
	<i>n</i> -Hexane
	<i>n</i> -Pentane & 1,2-butadiene
	<i>n</i> -Pentane (C ₅ H ₁₂)
	Other C ₄ Hydrocarbons
	Others
	Pentene
	Propadiene (allene) (C ₃ H ₄)
	Propane (C ₃ H ₈)
	Propylene (propene) (C ₃ H ₆)
	Propyne (methylacetylene) (C ₃ H ₄)
	<i>t</i> -2-Butene
	<i>t</i> -2-Pentene
	Toluene
	Total Hydrocarbon (THC) as Methane (CH ₄)
Total Hydrocarbons (THC)	
Hydrogen (H ₂)	Acetone (C ₃ H ₆ O)
	Argon (Ar)
	Argon/Oxygen (Ar/O ₂)
	C ₆ + Hydrocarbons
	Carbon dioxide (CO ₂)
Carbon monoxide (CO)	

Matrix	Analyte
Hydrogen (H ₂)	Diisopropylether (C ₆ H ₁₄ O)
	Ethane (C ₂ H ₆)
	Ethylene (C ₂ H ₄)
	Helium (He)
	Hexanol (C ₆ H ₁₃ OH)
	Hydrogen (H ₂)
	<i>iso</i> -Butane (C ₄ H ₁₀)
	<i>iso</i> -Hexane (C ₆ H ₁₂)
	<i>iso</i> -Pentane (C ₅ H ₁₂)
	<i>iso</i> -Propanol (C ₃ H ₈ O)
	Methane (CH ₄)
	Methanol (CH ₃ OH)
	Methyl- <i>isobutyl</i> -ether (C ₅ H ₁₂ O)
	<i>n</i> -Butane (C ₄ H ₁₀)
	<i>n</i> -Hexane (C ₆ H ₁₄)
	Nitrogen (N ₂)
	<i>n</i> -Pentane (C ₅ H ₁₂)
	Oxygen (O ₂)
	Propane (C ₃ H ₈)
	Propylene (C ₃ H ₆)
Water vapor (H ₂ O)	
Hydrogen Bromide, HBr	Argon/Oxygen (Ar/O ₂)
	Carbon dioxide (CO ₂)
	Carbon monoxide (CO)
	Helium (He)
	Hydrochloric acid (HCl)
	Hydrogen (H ₂)
	Methane (CH ₄)
	Nitrogen (N ₂)
Water vapor (H ₂ O)	
Hydrogen Chloride, HCl	Acetic acid (CH ₃ CO ₂ H)
	Acetyl chloride (CH ₃ COCl)
	Acetylene (C ₂ H ₂)†

Matrix	Analyte
Hydrogen Chloride, HCl	Argon/Oxygen (Ar/O ₂)†
	Carbon dioxide (CO ₂) †
	Carbon monoxide (CO)†
	Hydrogen (H ₂)†
	Methane (CH ₄)†
	Nitrogen (N ₂)†
	Water vapor (H ₂ O)†
Hydrogen Fluoride, HF	Carbon dioxide (CO ₂)
	Carbon monoxide (CO)
	Hydrochloric acid (HCl)
	Hydrogen fluoride (HF)
	Methane (CH ₄)
	Nitrogen (N ₂)
	Oxygen (O ₂)
	Silicon tetrafluoride (SiF ₄)
Sulfur dioxide (SO ₂)	
Sulfuric acid (H ₂ SO ₄)	
Water vapor (H ₂ O)	
Hydrogen Sulfide, H ₂ S	Ammonia (NH ₃)
	Argon/Oxygen (Ar/O ₂)
	Carbon dioxide (CO ₂)
	Carbon disulfide (CS ₂)
	Carbon monoxide (CO)
	Carbonyl sulfide (COS)
	Hydrocarbons C ₂ -C ₅
	Hydrogen (H ₂)
	Hydrogen sulfide (H ₂ S)
	Methane (CH ₄)
Nitrogen (N ₂)	
Sulfur dioxide (SO ₂)	
Water vapor (H ₂ O)	

*Hydrocarbon analyses available at ppm, ppb, and mol % levels.

† Liquid and gas phases

Matrix	Analyte
Hydrogen, H ₂	Carbon dioxide (CO ₂)
	Carbon monoxide (CO)
	Purity
Metals	Aluminum (Al)
	Antimony (Sb)
	Arsenic (As)
	Barium (Ba)
	Beryllium (Be)
	Bismuth (Bi)
	Boron (B)
	Bromide (Br)
	Cadmium (Cd)
	Caesium (Cs)
	Calcium (Ca)
	Cerium (Ce)
	Chromium (Cr)
	Cobalt (Co)
	Copper (Cu)
	Dysprosium (Dy)
	Erbium (Er)
	Europium (Eu)
	Gadolinium (Gd)
	Gallium (Ga)
	Germanium (Ge)
	Gold (Au)
	Hafnium (Hf)
	Holmium (Ho)
	Indium (In)
	Iridium (Ir)
	Iron (Fe)
	Lanthanum
	Lead (Pb)
	Lithium (Li)

Matrix	Analyte
Metals	Lutetium (Lu)
	Magnesium (Mg)
	Manganese (Mn)
	Mercury (Hg)
	Molybdenum (Mo)
	Neodymium (Nd)
	Nickel (Ni)
	Niobium (Nb)
	Palladium (Pd)
	Phosphorus (P)
	Platinum (Pt)
	Potassium (K)
	Praseodymium (Pr)
	Rhenium (Re)
	Rhodium (Rh)
	Ruthenium (Ru)
	Samarium (Sm)
	Scandium (Sc)
	Selenium (Se)
	Silicon (Si)
	Silver (Ag)
	Sodium (Na)
	Stibine (SbH ₃)
	Strontium (Sr)
	Tantalum (Ta)
	Tellurium (Te)
	Terbium (Tb)
	Thallium (Tl)
	Thorium (Th)
	Thulium (Tm)
	Tin (Sn)
	Titanium (Ti)
	Tungsten (W)

Matrix	Analyte
Metals	Uranium (U)
	Vanadium (V)
	Ytterbium (Yb)
	Yttrium (Y)
	Zinc (Zn)
	Zirconium (Zr)
Methane, CH ₄	Argon (Ar)
	Carbon dioxide (CO ₂)
	Carbon monoxide (CO)
	Hydrocarbons C ₂ -C ₅
	Hydrogen (H ₂)
	Hydrogen sulfide (H ₂ S)
	Nitrogen (N ₂)
	Oxygen (O ₂)
Water vapor (H ₂ O)	
Monomers	2-Propenenitrile (acrylonitrile) (C ₃ H ₃ N)
	Butylacrylate (C ₇ H ₁₂ O ₂)
	l-Methylstyrene
	Methyl-2-methylpropenoate (C ₅ H ₈ O ₂)
MPG-USP Testing	1,1-Oxybis-2-propanol
	1-Hydroxy-2-propanone
	2-(2-Hydroxypropoxy) 1-propanol
	2-Butanol
	2-Ethyl hexanol
	2-Methyl-1-propanol
	Acetic acid (CH ₃ CO ₂ H)
	Acetone
	Acrylonitrile
	Alimet
	Base Oil
	Benzene (C ₆ H ₆)
	Butanol
	Butyl cellosolve

Matrix	Analyte
MPG-USP Testing	Butyl diglycol
	C ₁₈ -Methyl ester
	Caradol
	Castor Oil
	Chloroform
	Cremer DHCFA
	Crude sunflower seed oil
	Diethoxymethane
	Dipropylene glycol
	Ethanol (C ₂ H ₅ OH)
	Exxal 13
	Hexaethylene glycol dimethyl ether
	Hydroxy propanone
	Isopropyl alcohol
	Kalcol 2465
	Linear alkyl benzene
	Lube Oil
	Methanol (CH ₃ OH)
	Methyl ethyl ketone (MEK)
	Monoethyle glycol
	Naptha
	Neodene 8
	Neodol 25-2
	Neodol 25-3
	Neodol 45
	Olone
	<i>o</i> -Xylene
	Palm fatty acid methyl ester
	Palm kernel stear
	Palm oil
	Palm olein
	Palmac 505HS
Perchloroethylene	

Matrix	Analyte
MPG-USP Testing	Pfame
	Phosphoric acid
	<i>p</i> -Xylene
	RBD Palm olein (IV47)
	RBD Palm stearine
	Soybean oil
	Styrene
	Sulfuric acid (H ₂ SO ₄)
	<i>Tert</i> -butyl methyl ether (MTBE)
	Toluene
	Unleaded Gasoline
	Xylenes
	Yubase 3,4,6
Natural Gas	1,1-Dimethylcyclopentane (C ₇ H ₁₄)
	1,2,3-Trimethylcyclopentane (C ₈ H ₁₆)
	1,2,4-Trimethylcyclopentane (C ₈ H ₁₆)
	1,2- <i>trans</i> -Dimethylcyclopentane (C ₇ H ₁₄)
	2,2,3-Trimethylbutane (C ₈ H ₁₈)
	2,2,3-Trimethylpentane (C ₈ H ₁₈)
	2,2,4-Trimethylpentane (C ₈ H ₁₈)
	2,2-Dimethylbutane (neohexane) (C ₆ H ₁₄)
	2,2-Dimethylpentane (C ₆ H ₁₄)
	2,3-Dimethylbutane (diisopropyl) (C ₆ H ₁₄)
	2,3-Dimethylpentane (C ₇ H ₁₆)
	2,4-Dimethylpentane (C ₇ H ₁₆)
	2,5-Dimethylhexane (C ₈ H ₁₈)
	2-Methylheptane (C ₈ H ₁₈)
	2-Methylhexane (C ₇ H ₁₆)
	2-Methylpentane (C ₆ H ₁₄)
3,3-Dimethylhexane (C ₈ H ₁₈)	
3,3-Dimethylpentane (CH ₃ CH ₂ C(CH ₃) ₂ CH ₂ CH ₃)	
3-Methylheptane (C ₈ H ₁₈)	
3-Methylhexane (C ₇ H ₁₆)	

Matrix	Analyte
Natural Gas	3-Methylpentane (C ₆ H ₁₄)
	Benzene (C ₆ H ₆)
	bicyclo[4.4.0]deca-1,3,5,7,9-Pentene (C ₁₀ H ₈)
	BTU/LB
	Butane (<i>n</i> -butane) (C ₄ H ₁₀)
	C ₈ + Hydrocarbons
	Carbon dioxide (CO ₂)
	Carbon monoxide (CO)
	<i>cis</i> -1,2-Dimethylcyclopentane (C ₇ H ₁₄)
	Cyclohexane (C ₆ H ₁₂)
	Ethane (C ₂ H ₆)
	Ethylcyclopentane (C ₇ H ₁₄)
	Gross BTU/cu ft
	Hexane (<i>n</i> -hexane) (C ₆ H ₁₄)
	Hexanes plus (50/50)
	Hydrogen (H ₂)
	Hydrogen sulfide (H ₂ S)
	Methane (CH ₄)
	Methylbenzene (toluene) (C ₇ H ₈)
	Methylbutane (<i>iso</i> -pentane) (C ₅ H ₁₂)
	Methylcyclohexane (C ₇ H ₁₄)
	Methylcyclopentane (C ₆ H ₁₀)
	Methylpropane (<i>i</i> -butane, <i>iso</i> -butane) (C ₄ H ₁₀)
	Mol Weight
	<i>n</i> -Heptane (C ₇ H ₁₆)
	Nitrogen (N ₂)
	Octane (<i>n</i> -octane, 2,2-dimethylhexane) (C ₈ H ₁₈)
	Pentane (<i>n</i> -pentane) (C ₅ H ₁₂)
	Propane (C ₃ H ₈)
	Specific Gravity
Total Sulfur (S)	

Matrix	Analyte
Nitric Oxide, NO	C ₂ Hydrocarbons
	C ₂ -C ₆ Hydrocarbons
	C ₃ Hydrocarbons
	C ₄ Hydrocarbons
	Calcium (Ca)
	Carbon dioxide (CO ₂)
	Carbon monoxide (CO)
	Chromium (Cr)
	Copper (Cu)
	Hydrogen (H ₂)
	Iron (Fe)
	Methane (CH ₄)
	Nitric Oxide, NO
Nitrogen (N ₂)	
Nitrogen dioxide (NO ₂)	
Nitrous oxide (N ₂ O)	
Oxygen (O ₂)	
Sodium (Na)	
Water vapor (H ₂ O)	
Zinc (Zn)	
Nitrogen Dioxide, NO ₂	
	Nitric oxide (NO)
	Nitrogen oxide (N ₂ O ₄)
	Nitrous acid (HNO ₂)
	Nitrous oxide (N ₂ O)
	Sulfur dioxide (SO ₂)
	Carbon dioxide (CO ₂)
	Carbon monoxide (CO)
	Carbon tetrafluoride (CF ₄)
	Hydrogen (H ₂)
	Hydrogen fluoride (HF)
	Methane (CH ₄)
	Nitrogen (N ₂)

Matrix	Analyte
Nitrogen Dioxide, NO ₂	Nitrous oxide (N ₂ O)
	Oxygen (O ₂)
	Perfluoroethane (C ₂ F ₆)
	Perfluoromethylamine (PFMA)
	Sulfur hexafluoride (SF ₆)
	Sulfuryl fluoride (SO ₂ F ₂)
	Water vapor (H ₂ O)
Nitrogen, N ₂	Ammonia (NH ₃)
	Argon (Ar)
	Carbon dioxide (CO ₂)
	Carbon monoxide (CO)
	Helium (He)
Nitrogen, N ₂	Hydrocarbons C ₂ -C ₅
	Hydrogen (H ₂)
	Methane (CH ₄)
	Nitric oxide (NO)
	Nitrogen (N ₂)
	Nitrogen dioxide (NO ₂)
	Nitrogen-H ₂ O/Ar free basis
	Nitrous oxide (N ₂ O)
	Oxygen (O ₂)
	Tetrahydrocannabinol (THC) (C ₂₁ H ₃₀ O ₂)
Total Hydrocarbons (THC)	
Water vapor (H ₂ O)	
Octafluorocyclobutane, C ₄ F ₈	Argon (Ar)
	Carbon dioxide (CO ₂)
	Carbon monoxide (CO)
	Carbon tetrafluoride (CF ₄)
	Hydrochloric acid (HCl)
	Hydrogen (H ₂)

Matrix	Analyte
Octafluorocyclobutane, C ₄ F ₈	Impurities
	Nitrogen (N ₂)
	Oxygen (O ₂)
	Water vapor (H ₂ O)
Off Gas	Carbon dioxide (CO ₂)
	Carbon monoxide (CO)
	Hydrogen (H ₂)
	Methane (CH ₄)
	Nitrogen (N ₂)
Oil and Grease	Oxygen (O ₂)
	Tare Weight of Blank Beaker
	Final Weight of Blank Beaker
	Tare Weight of Filter Paper
	Final Weight of Filter Paper
	Tare Weight of Sample Beaker
	Final Weight of Filter Paper
Final Weight of Sample Beaker	
Millilitres (mls) of Solvent (Blank)	
Oxygen, O ₂	Argon (Ar)
	Carbon dioxide (CO ₂)
	Carbon monoxide (CO)
	Helium (He)
	Hydrocarbons C ₂ -C ₅
	Hydrogen (H ₂)
	Krypton (Kr)
	Methane (CH ₄)
	Nitrogen (N ₂)
	Nitrous oxide (N ₂ O)
	Water vapor (H ₂ O)
Phosphine, PH ₃	Argon/Oxygen (Ar/O ₂)
	Arsine (AsH ₃)
	Carbon dioxide (CO ₂)
	Carbon monoxide (CO)

Matrix	Analyte
Phosphine, PH ₃	Carbonyl sulfide (COS)
	Germane (GeH ₄)
	Hydrocarbons C ₂ -C ₅
	Hydrogen (H ₂)
	Hydrogen sulfide (H ₂ S)
	Methane (CH ₄)
	Nitrogen (N ₂)
	Silane (SiH ₄)
	Water vapor (H ₂ O)
	Propylene, C ₃ H ₆
1-butene (But-1-ene) (C ₄ H ₈)	
Acetylene (C ₂ H ₂)	
Ammonia (NH ₃)	
Argon/Oxygen (Ar/O ₂)	
Arsine (AsH ₃)	
BTU/scf Gross	
BTU/scf Net	
Butane (C ₄ H ₁₀)	
C ₅ + Hydrocarbons	
Carbon dioxide (CO ₂)	
Carbon monoxide (CO)	
Carbonyl sulfide (COS)	
c-Butene- ₂ (C ₄ H ₈)	
Cyclopropane (C ₃ H ₆)	
Ethane (C ₂ H ₆)	
Ethylacetylene(but-1-yne)(C ₄ H ₆)	
Ethylene (C ₂ H ₄)	
Hydrogen (H ₂)	
Hydrogen sulfide (H ₂ S)	
Isobutane (C ₄ H ₁₀)	
iso-butene (2-methylpropene) (isobutylene) (C ₄ H ₈)	
iso-Pentane (methylbutane) (C ₅ H ₁₂)	

Matrix	Analyte
Propylene, C ₃ H ₆	Methane (CH ₄)
	Methanol (CH ₃ OH)
	Methylacetylene (propyne)(C ₃ H ₄)
	Nitrogen (N ₂)
	n-Pentane (pentane) (C ₅ H ₁₂)
	Phosphine (PH ₃)
	Propadiene (allene) (C ₃ H ₄)
	Propane (C ₃ H ₈)
	Propylene (C ₃ H ₆)
	t-Butene-2 (C ₄ H ₈)
Silane, SiH ₄	Vinylacetylene (but-1-en-3-yne) (C ₄ H ₄)
	Water vapor (H ₂ O)
	(Chloromethyl)Trimethylsilane (C ₄ H ₁₁ ClSi)
	[[3-(4-Chlorophenyl)-3-butenyl]oxy]Tri-methylsilane
	1-Chloromethyl-2-butane (C ₅ H ₁₁ Cl)
	2-Chloro-2-methylpropane (C ₄ H ₉ Cl)
	2-Methylpropan-2-ol (<i>tert</i> -butanol)
	2-Methyltetrahydrofuran (C ₅ H ₁₀ O)
	2-Methyltetrahydrofuran (C ₅ H ₁₀ O)
	3-(Chloromethyl)pentane (C ₆ H ₁₃ Cl)
Silane, SiH ₄	3-Methylpentane (C ₆ H ₁₄)
	α-Butene
	Acetic acid (CH ₃ CO ₂ H)
	α-Hexane
	α-Pentene
	Argon/Oxygen (Ar/O ₂)
	Arsine (AsH ₃)
	Butene (butylene) (C ₄ H ₈)
	Butyl chloride (C ₄ H ₉ Cl)
	Carbon dioxide (CO ₂)
	Carbon monoxide (CO)
	Chloromethane (CH ₃ Cl)
	Chloromethane (methyl chloride) (CH ₃ Cl)

Matrix	Analyte
Silane, SiH ₄	Cyclopentane (C ₅ H ₁₀)
	Dihydrofuran-2(3H)-one (butyrolactone) (C ₄ H ₆ O ₂)
	Dimethyl sulfide (C ₂ H ₆ S)
	Dimethylcyclopropane
	Di-n-butyl ether (C ₈ H ₁₈ O)
	Disilane (Si ₂ H ₆)
	Ethane (C ₂ H ₆)
	Ethanol (C ₂ H ₅ OH)
	Ethylsilane (C ₂ H ₈ Si)
	Ethyltrimethylsilane (C ₅ H ₁₄ Si)
	Formic acid (CH ₂ O ₂)
	Hexamethylcyclotrisiloxane (C ₆ H ₁₈ O ₃ Si ₃)
	Hexamethyldisiloxane (C ₆ H ₁₈ OSi ₂)
	Hexamethyltrisiloxane (C ₆ H ₂₀ O ₂ Si ₃)
	Hexane (<i>n</i> -hexane) (C ₆ H ₁₄)
	Hydrocarbons C ₂ -C ₅
	Hydrogen (H ₂)
	Methane (CH ₄)
	Methanol (CH ₃ OH)
	Methoxy-phenyl-oxime
	Methylbenzene (toluene) (C ₇ H ₈)
	Methylsilane (CH ₃ SiH ₃)
	Nitrogen (N ₂)
	Octamethylcyclotetrasiloxane (D ₄)
Oxolane (tetrahydrofuran) ((CH ₂) ₄ O)	
Oxolane-2-ol (2-furanol, tetrahydro) (C ₄ H ₈ O ₂)	
Pentane (<i>n</i> -pentane) (C ₅ H ₁₂)	
Phosphine (PH ₃)	
Propane (C ₃ H ₈)	
<i>tert</i> -Butyldimethylsilyl (TBS/TBDMS) (C ₆ H ₁₆ OSi)	
Tetramethylsilane (TMS) (Si(CH ₃) ₄)	

Matrix	Analyte	
Silane, SiH ₄	Trimethylsilanol (TMS) ((CH ₃) ₃ SiOH)	
	Water vapor (H ₂ O)	
Silanes	Monochlorosilane	
	Trichlorosilane	
Silicon Tetrafluoride, SiF ₄	Argon/Oxygen (Ar/O ₂)	
	Carbon dioxide (CO ₂)	
	Carbon monoxide (CO)	
	Carbon tetrafluoride (CF ₄)	
	Hydrochloric acid (HCl)	
	Hydrogen (H ₂)	
	Methane (CH ₄)	
	Nitrogen (N ₂)	
	Sulfur dioxide (SO ₂)	
	Sulfur hexafluoride (SF ₆)	
	Water vapor (H ₂ O)	
	Siloxanes	<i>iso</i> -Pentasilane
		<i>iso</i> -Tetrasilane
Pentasilane		
Silane (SiH ₄)		
Tetrasilane		
Trisilane		
Sulfur Dioxide, SO ₂	Acidity (as H ₂ SO ₄)	
	Argon/Oxygen (Ar/O ₂)	
	Carbon dioxide (CO ₂)	
	Carbon monoxide (CO)	
	Hydrogen (H ₂)	
	Methane (CH ₄)	
	Nitrogen (N ₂)	
	Residue	
	Argon/Oxygen (Ar/O ₂)	
	Carbon dioxide (CO ₂)	
	Carbon monoxide (CO)	
Carbon tetrafluoride (CF ₄)		

Matrix	Analyte
Sulfur Dioxide, SO ₂	Hydrogen (H ₂)
	Hydrogen Fluoride (HF)
	Nitrogen (N ₂)
	Nitrogen trifluoride (NF ₃)
	Water vapor (H ₂ O)
	1-Propyl mercaptan (C ₃ H ₈ S)
	2-Methyl-2-propyl mercaptan
	Carbon disulfide (CS ₂)
	Carbonyl sulfide (COS)
	Diethyl disulfide (C ₄ H ₁₀ S ₂)
	Diethyl sulfide (C ₄ H ₁₀ S)
	Dimethyl disulfide (C ₂ H ₆ S ₂)
	Dimethylsulfide (C ₂ H ₆ S)
	Ethyl mercaptan (C ₂ H ₆ S)
	Ethyl <i>n</i> -propyle disulfide (C ₅ H ₁₂ S)
	Sulfur, S
Isobutyl methyl ether (C ₅ H ₁₂ O)	
Isopropyl mercaptan (C ₃ H ₈ S)	
Methyl ethyl disulfide (C ₃ H ₈ S ₂)	
Methyl mercaptan (methanethiol) (CH ₃ SH)	
Methylisopropyl disulfide (C ₄ H ₁₀ S ₂)	
<i>n</i> -Propyl mercaptan (C ₃ H ₇ SH)	
Sulfur dioxide (SO ₂)	
Thiophene (C ₄ H ₄ S)	
Total Sulfur (S)	
Synthetic Air	Carbon dioxide (CO ₂)
	Carbon monoxide (CO)
	Dinitrogen tetroxide (N ₂ O ₄)
	Nitric acid (HNO ₃)
	Nitric oxide (NO)
	Nitrogen dioxide (NO ₂)
Nitrous acid (HNO ₂)	

Matrix	Analyte
Synthetic Air	Nitrous oxide (N ₂ O)
	Sulfur dioxide (SO ₂)
	Water vapor (H ₂ O)
Water Tests	Ethanal (acetaldehyde) (CH ₃ CHO)
	Ethenyl acetate (vinyl acetate) (C ₄ H ₆ O ₂)
	Formaldehyde (CH ₂ O)
	Formic acid (CH ₂ O ₂)
	Oxirane (Ethylene Oxide) (C ₂ H ₄ O)
Total Chlorides (Cl ⁻)	