

LIST OF SERVICES

2017

Last Updated 05 July, 2017

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Notes

As a "Centre of Excellence in Analytical Science" Labstat's team of scientist are continually expanding and developing new analytical methods. For the latest developments, LOD/LOQ's and questions please contact our Business Development team at Clientservices@labstat.com or Tel: [+1-519-748-5409](tel:+15197485409).

E-Liquids

E-Liquids	Test Code	Description
Additives	CAFO-LCUN-EL	Caffeic Acid in E-liquids by HPLC-UV, Full Panel
	CFF0-GCSN-EL	Caffeine in E-liquids by GC-TSD, Full Panel
	GLH0-LCUN-EL	Glycyrrhizic Acid in E-liquids by HPLC-UV, Full Panel
	THE0-LCUN-EL	Theobromine in E-liquids by HPLC-UV, Full Panel
	ARP0-SIMN-EL	Peppermint Oil in E-liquids by GC-MS (SIM), Full Panel
	FLA0-SPMN-EL	Flavourants in E-liquids by GC-MS (SPME), Full Panel
Ammonia	NH30-ICCN-EL	Ammonia in E-liquids by Ion-Chromatography (EC), Full Panel
Aromatic Amines	AMIO-GCNN-EL	Aromatic Amines in E-liquids by GC-MS (NCI), Full Panel
	AMIH-GCNN-EL	Aromatic Amines in E-liquids by GC-MS (NCI), HPHC List
Carbonyls	CAR0-LCUN-EL	Carbonyls in E-liquids by HPLC-UV, Full Panel
	DCA0-SIMN-EL	Carbonyls and Dicarbonyls in E-liquids by GC-MS (SIM), Full Panel
	DCA1-SIMN-EL	Dicarbonyls in E-liquids by GC-MS (SIM), Panel 1
	DCA2-SIMN-EL	Carbonyls in E-liquids by GC-MS (SIM), Panel 2
Composition (Propylene Glycol and Glycerol)	ETH0-GCTN-EL	Ethanol in E-liquids by GC-TCD, Full Panel
	THM0-GCFN-EL	Composition, Nicotine, Menthol, Diethylene Glycol, Ethylene Glycol, Glycidol, Triethylene Glycol, and Triacetin, in E-liquids by GC-FID, Full Panel
	THM0-SIML-EL	Glycidol in E-liquids by GC-MS (SIM)
	THM1-GCFN-EL	Composition, Nicotine, Menthol and Triacetin in E-liquids by GC-FID, Panel 3
	THM2-GCFN-EL	Composition, Nicotine, Glycidol and Triacetin in E-liquids by GC-FID, Panel 2
Hydrogen Cyanide	HCN0-CFAN-EL	Hydrogen Cyanide in E-liquids by Continuous Flow Analysis, Full Panel

E-Liquids	Test Code	Description
Metals	HG_0-HGCN-EL	Mercury in E-liquids by Cold Vapor Atomic Absorption Spectroscopy, Full Panel
	MET0-ICPN-EL	Metals in E-liquids by ICP-MS, Full Panel
Moisture	KFW0-KFTN-EL	Water in E-liquids by Karl-Fisher Titration, Full Panel
Nicotine	NCC0-GCSN-EL	Nicotine, Cotinine and Caffeine in E-liquids by GC-TSD, Full Panel
Nicotine Alkaloids	ALK0-GCSN-EL	Alkaloids in E-liquids by GC-TSD, Full Panel
	AA30-CFAN-EL	Nicotine and Sugars (Total and Reducing) in E-liquids by Continuous Flow Analysis, Full Panel
Nicotine Degradation Products	DEG0-LCMN-EL	Nicotine Related Impurities in E-liquids by LC-MS/MS, Full Panel
Nitrogen	NO20-SPHN-EL	Nitrite in E-liquids by Automated Spectrophotometry
	NO30-CFAN-EL	Nitrate in E-liquids by Continuous Flow Analysis, Full Panel
Nitrosamines, Tobacco Specific	TSN0-LCMN-EL	Tobacco Specific Nitrosamines in E-liquids by LC-MS/MS, Full Panel
Nitrosamines, Volatile	VNA0-LCMN-EL	Volatile Nitrosamines in E-liquids by LC-MS/MS, Full Panel
Organic Acids	OAC0-LCUN-EL	Organic Acids in E-liquids by HPLC-UV, Full Panel
	OAC1-LCUN-EL	Benzoic Acid in E-liquids by HPLC-UV
PH	PH_0-PHMN-EL	pH of E-liquids by Electrode, Full Panel
Phenols	PHN0-LCFN-EL	Phenols in E-liquids by HPLC-FLU, Full Panel
Polynuclear Aromatic Hydrocarbons	PAH0-SIMN-EL	Polynuclear Aromatic Hydrocarbons in E-liquids by GC-MS (SIM), Full Panel
	PAH3-SIMN-EL	Benzo(a)pyrene in E-liquids by GC-MS (SIM), Panel 1
Volatiles	ALAO-SIMN-EL	Allyl Alcohol in E-liquids by GC-MS (SIM), Full Panel
	VOLO-SIMN-EL	Volatile Compounds in E-liquids by GC-MS (SIM), Full Panel
Volatiles, Semi-	SVC0-SIMN-EL	Semi-Volatile Compounds in E-liquids by GC-MS (SIM), Full Panel

E-Cigarette Mainstream Vapour

E-Cigarette Mainstream Vapour	Test Code	Description
Additives	CAFO-LCUL-MV	Caffeic Acid in E-cigarette Aerosol by HPLC-UV, Full Panel - Linear Smoking
	CFFO-GCSL-MV	Caffeine in E-cigarette Aerosol by GC-TSD, Full Panel - Linear Smoking
	EUGO-LCUL-MV	Eugenol in E-cigarette Aerosol by HPLC-UV, Full Panel - Linear Smoking
	ARPO-SIML-MV	Peppermint Oil in E-cigarette Aerosol by GC-MS (SIM), Full Panel - Linear Smoking
	FLAO-SPML-MV	Flavourants in E-cigarette Aerosol by GC-MS (SPME), Full Panel - Linear Smoking
Ammonia	NH30-ICCL-MV	Ammonia in E-cigarette Aerosol by Ion-Chromatography (EC), Full Panel - Linear Smoking
Aromatic Amines	AMI1-GCNL-MV	Aromatic Amines in E-cigarette Aerosol by GC-MS (NCI), Panel 1 - Linear Smoking
	AMIH-GCNL-MV	Aromatic Amines in E-cigarette Aerosol by GC-MS (NCI), HPHC List - Linear Smoking
Aromatic Amines, Heterocyclic	HAA0-LCML-MV	Heterocyclic Aromatic Amines in E-cigarette Aerosol by LC-MS/MS, Full Panel - Linear Smoking
	HAAH-LCML-MV	Heterocyclic Aromatic Amines in E-cigarette Aerosol by LC-MS/MS, HPHC List - Linear Smoking
Carbonyls	CAR0-LCUL-MV	Carbonyls in E-cigarette Aerosol by HPLC-UV, Full Panel - Linear Smoking
	DCA0-SIML-MV	Carbonyls and Dicarbonyls in E-cigarette Aerosol by GC-MS (SIM), Full Panel - Linear Smoking
	DCA1-SIML-MV	Carbonyls and Dicarbonyls in E-cigarette Aerosol by GC-MS (SIM), Panel 1 - Linear Smoking
	DCA2-SIML-MV	Carbonyls and Dicarbonyls in E-cigarette Aerosol by GC-MS (SIM), Panel 2 - Linear Smoking
Composition	ETH0-GCTL-MV	Ethanol in E-cigarette Aerosol by GC, Full Panel
	THM0-GCCL-MV	NFDAM, Nicotine, Humectants, Menthol, and Triacetin in E-cigarette Aerosol by GC-TCD/FID, Full Panel - Linear Smoking

E-Cigarette Mainstream Vapour	Test Code	Description
	THM0-SIML-MV	Glycidol in E-cigarette Aerosol by GC-MS (SIM) - Linear Smoking
Composition, Carbon Monoxide	COX1-NDIL-MV	Carbon Monoxide in E-cigarette Aerosol using Nondispersive Infrared Detection, Panel 1 - Linear Smoking
	TNC0-GCCL-MV	NFDAM, Nicotine, Carbon Monoxide, Composition, Menthol, Diethylene Glycol, Triethylene glycol, Triacetin in E-cigarette Aerosol by GC-TCD/FID, Full Panel - Linear Smoking
	TNC1-GCCL-MV	NFDAM, Nicotine, Carbon Monoxide, Composition, Menthol and Triacetin in Mainstream Aerosol by GC-TCD/FID, Panel 1 - Linear Smoking
	TNC2-GCCL-MV	NFDAM, Nicotine, Carbon Monoxide, Composition and Triacetin in Mainstream Aerosol by GC-TCD/FID, Panel 2 - Linear Smoking
	TNC3-GCCL-MV	NFDAM, Nicotine and Carbon Monoxide in E-cigarette Aerosol by GC-TCD/FID, Panel 3 - Linear Smoking
Dioxins and Furans	DIO0-SUBL-MV	Chlorinated Dioxins and Furans in E-cigarette Aerosol (Subcontracted), Full Panel - Linear Smoking
Humectants and Nicotine	THM1-GCCL-MV	Menthol, Nicotine and Composition in E-cigarette Aerosol by GC-TCD/FID, Panel 1 - Linear Smoking
	THM2-GCCL-MV	Nicotine, Particulate Humectants and Water in Mainstream Aerosol by GC-TCD/FID, Panel 2 - Linear Smoking
Hydrazine	HYD0-LCML-MV	Hydrazine in E-cigarette Aerosol by LC-MS/MS, Full Panel - Linear Smoking
Hydrogen Cyanide	HCN0-CFAL-MV	Hydrogen Cyanide in E-cigarette Aerosol by Continuous Flow Analysis, Full Panel - Linear Smoking

E-Cigarette Mainstream Vapour	Test Code	Description
Metals	HG_0-HGCL-MV	Mercury in E-cigarette Aerosol by Cold Vapor Atomic Absorption Spectroscopy, Full Panel - Linear Smoking
	MEQ0-ICPL-MV	Metals in E-cigarette Aerosol by ICP-MS, Full Panel - Linear Smoking
	MEQ1-ICPL-MV	Metals in E-cigarette Aerosol by ICP-MS, Panel 1 - Linear Smoking
	MET0-ICPE-MV	Metals in E-cigarette Aerosol by ICP-MS, Full Panel - Rotary Smoking with Electrostatic Precipitation
	METH-ICPE-MV	Metals in E-cigarette Aerosol by ICP-MS, HPHC List - Rotary Smoking with Electrostatic Precipitation
Nicotine Degradation Products	DEG0-LCML-MV	Nicotine Related Impurities in E-cigarette Aerosol by LC-MS/MS, Full Panel - Linear Smoking
Nitrosamines, Tobacco Specific	TSN0-LCML-MV	Tobacco Specific Nitrosamines in E-cigarette Aerosol by LC-MS/MS, Full Panel - Linear Smoking
	TSNH-LCML-MV	Tobacco Specific Nitrosamines in E-cigarette Aerosol by LC-MS/MS, HPHC List - Linear Smoking
Nitrosamines, Volatile	VNA0-LCML-MV	Volatile Nitrosamines in E-cigarette Aerosol by LC-MS/MS, Full Panel - Linear Smoking
	VNAH-LCML-MV	Volatile Nitrosamines in E-cigarette Aerosol by LC-MS/MS, HPHC List - Linear Smoking
NOX	NOX0-NOXX-MV	Nitrogen Oxides in E-cigarette Aerosol using a Chemiluminescence Analyzer, Full Panel
Organic Acids	OAC0-LCUL-MV	Organic Acids in E-cigarette Aerosol by HPLC-UV, Full Panel - Linear Smoking
	OAC1-LCUL-MV	Benzoic Acid in E-cigarette Aerosol by HPLC-UV, Panel 1 - Linear Smoking
PH	PH_0-PHMS-MV	pH in Mainstream E-cigarette Aerosol by Electrode, Full Panel - Single-Port Smoking
	PHL0-PHML-MV	pH of Mainstream E-cigarette Aerosol by Electrode with Liquid Trap
Phenols	PHE0-LCFL-MV	Phenols in E-cigarette Aerosol by HPLC-FLU, Full Panel - Linear Smoking
	PHN0-LCFL-MV	Phenols in E-cigarette Aerosol by HPLC-FLU, Full Panel - Linear Smoking
	PHNH-LCFL-MV	Catechol, m-cresol, o-cresol, p-cresol, Phenol in E-cigarette Aerosol by HPLC-FLU, HPHC List - Linear Smoking

E-Cigarette Mainstream Vapour	Test Code	Description
Polynuclear Aromatic Hydrocarbons	PAA0-SIML-MV	Polynuclear Aromatic Hydrocarbons and Aza-arenes in E-cigarette Aerosol by GC-MS (SIM), Full Panel - Linear Smoking
	PAH0-SIML-MV	Polynuclear Aromatic Hydrocarbons in E-cigarette Aerosol by GC-MS (SIM), Full Panel - Linear Smoking
	PAH3-SIML-MV	Benzo(a)pyrene in E-cigarette Aerosol by GC-MS (SIM) - Linear Smoking
Radio nucleotides	POL1-SUBL-MV	Polonium-210 in E-cigarette Aerosol (Subcontracted), Panel 1 - Linear Smoking
	U__0-SUBL-MV	Uranium-235 and Uranium-238 in E-cigarette Aerosol (Subcontracted), Full Panel - Linear Smoking
Volatiles	ALA0-SIML-MV	Allyl Alcohol in E-cigarette Aerosol by GC-MS (SIM), Full Panel - Linear Smoking
	VOL0-SIML-MV	Volatile Compounds in E-cigarette Aerosol by GC-MS (SIM), Full Panel - Linear Smoking
	VOL2-SIML-MV	Propylene Oxide in E-cigarette Aerosol by GC-MS (SIM), Panel 2 - Linear Smoking
	VOLA-SIML-MV	Volatile Compounds in E-cigarette Aerosol by GC-MS (SIM), Abbreviated HPHC list - Linear Smoking
	VOLH-SIML-MV	Volatile Compounds in E-cigarette Aerosol by GC-MS (SIM), HPHC List - Linear Smoking
	VON0-TEAL-MV	2-nitropropane in E-cigarette Aerosol by GC-TEA, Full Panel - Linear Smoking
Volatiles, Semi-	SVC0-SIML-MV	Semi-Volatile Compounds in E-cigarette Aerosol by GC-MS (SIM), Full Panel - Linear Smoking
	SVE0-TQUL-MV	Ethyl carbamate in E-cigarette Aerosol by GC-MS (TQU), Full Panel - Linear Smoking

Liquids and Extracts

Liquids and Extracts	Test Code	Description
Additives	ARF2-SIML-LQ	Aromatic Flavourants in Liquid Extracts by GC-MS (SIM), Panel 2 - Linear Smoking
	ARP0-SIMN-LQ	Peppermint Oil in Liquids by GC-MS (SIM), Full Panel
	HUM0-GCFN-LQ	Humectants in Liquid Extracts by GC-FID, Full Panel
Ammonia	NH30-CFAN-LQ	Ammonia in Liquid Extracts by Continuous Flow Analysis
Chloride	CHL0-TTRN-LQ	Chloride in Liquid Extracts by Titration, Full Panel
Metals	MET0-ICPN-LQ	Metals in Liquid Extracts by ICP-MS, Full Panel
Moisture	KFW0-KFTN-LQ	Water in Liquid Extracts by Karl-Fisher Titration, Full Panel
Nicotine Alkaloids	ALK0-GCSN-LQ	Alkaloids in Liquid Extracts by GC-TSD, Full Panel
Nicotine Alkaloids and Sugars	AA30-CFAN-LQ	Nicotine and Sugars (Total and Reducing) in Liquid Extracts by Continuous Flow Analysis, Full Panel
Nitrogen	NIT0-SUBN-LQ	Total Nitrogen in Liquid Extracts (Subcontracted), Full Panel
	NO21-SPHN-LQ	Nitrite in Liquid Extracts by Automated Spectrophotometry
	NO30-CFAN-LQ	Nitrate in Liquid Extracts by Continuous Flow Analysis
	PN_0-SUBN-LQ	Protein Nitrogen in Liquid Extracts (Subcontracted)
Nitrosamines, Tobacco Specific	TSN0-LCMN-LQ	Tobacco Specific Nitrosamines in Liquid Extracts by LC-MS/MS, Full Panel
	TSN0-TEAN-LQ	Tobacco Specific Nitrosamines in Liquid Extracts by GC-TEA, Full Panel
Osmolarity	OSM0-OSMN-LQ	Osmolarity of Aqueous Tobacco Extracts using an Osmometer
PH	PH_0-PHMN-LQ	pH of Liquid Extracts by Electrode
Phenols	PHN0-LCFN-LQ	Phenols in Liquid Extracts by HPLC-FLU, Full Panel
	PPH0-LCUN-LQ	Polyphenols and Caffeic Acid in Liquid Extracts by HPLC-UV, Full Panel

Thermally Heated Product (Heat not Burn) Emissions

Thermally Heated Product Emissions	Test Code	Description
Additives	ARF0-SIML-MH	Aromatic Flavourants In Mainstream emission by GC-MS (SIM), Full Panel - Linear Smoking
	ARF1-SIML-MH	Menthol and Carvone In Mainstream emission by GC-MS (SIM), Panel 1 - Linear Smoking
	ARF2-SIML-MH	Aromatic Flavourants in Mainstream emission by GC-MS (SIM), Panel 2 - Linear Smoking
	ARF4-SIML-MH	Aromatic Flavourants in Mainstream emission by GC-MS (SIM), Full Panel - Linear Smoking
	ARPO-SIML-MH	Peppermint Oil in Mainstream emission by GC-MS (SIM), Full Panel - Linear Smoking
Ammonia	NH3C-ICCL-MH	Ammonia in Mainstream emission by Ion-Chromatography (EC)- Linear Smoking
Aromatic Amines	AMIO-GCNL-MH	Aromatic Amines in Mainstream emission by GC-MS (NCI), Full Panel - Linear Smoking
	AMIA-GCNL-MH	Aromatic Amines in Mainstream emission by GC-MS (NCI), Abbreviated HPHC list - Linear Smoking
	AMIH-GCNL-MH	Aromatic Amines In Mainstream emission by GC-MS (NCI), HPHC List - Linear Smoking
Aromatic Amines, Heterocyclic	HAA0-LCML-MH	Heterocyclic Aromatic Amines in Mainstream emission by LC-MS/MS, Full Panel - Linear Smoking
	HAAH-LCML-MH	Heterocyclic Aromatic Amines in Mainstream emission by LC-MS/MS, HPHC List - Linear Smoking
Carbonyls	CARA-LCUL-MH	Carbonyls in Mainstream emission by HPLC-UV, Abbreviated HPHC list - Linear Smoking
	CARC-LCUL-MH	Carbonyls In Mainstream emission by HPLC-UV, Health Canada List - Linear Smoking
	CARH-LCUL-MH	Carbonyls in Mainstream emission by HPLC-UV, HPHC List - Linear Smoking
	DCA0-SIML-MH	Carbonyls and Dicarbonyls in Mainstream emission by GC-MS (SIM), Full Panel - Linear Smoking

Thermally Heated Product Emissions	Test Code	Description
	DCA1-SIML-MH	Carbonyls and Dicarbonyls in Mainstream emission by GC-MS (SIM), Panel 1 - Linear Smoking
	DCA2-SIML-MH	Carbonyls in Mainstream emission by GC-MS (SIM), Panel 2 - Linear Smoking
Dioxins and Furans	DIO0-SUBL-MH	Chlorinated Dioxins and Furans in Mainstream emission (Subcontracted), Full Panel - Linear Smoking
Humectants, Nicotine and CO	TNC0-GCCL-MH	Tar, Nicotine, Carbon Monoxide, Humectants, Menthol and Triacetin in Mainstream emission by GC-TCD/FID, Full Panel - Linear Smoking
	TNC1-GCCL-MH	Tar, Nicotine, Carbon Monoxide, Menthol, Glycerol, Propylene Glycol, Triacetin in Mainstream emission by GC-TCD/FID, Panel 1 - Linear Smoking
	TNC2-GCCL-MH	Tar, Nicotine, Carbon Monoxide, Glycerol, Glycidol, Propylene Glycol, Triacetin in Mainstream emission by GC-TCD/FID, Panel 2 - Linear Smoking
Humectants	THM4-GCCL-MH	Diethylene Glycol, Glycerol, Menthol, Propylene Glycol, Triacetin in Mainstream emission by GC-TCD/FID, Panel 4 - Linear Smoking(STM)
Humectants and Nicotine	THM0-GCCL-MH	Tar, Nicotine, Humectants, Menthol and Triacetin in Mainstream emission by GC-TCD/FID, Full Panel - Linear Smoking
Humectants and Other Organics	PBO0-SIML-MH	Particulate Bound Organics in Mainstream emission by GC-MS (SIM), Full Panel - Linear Smoking
Hydrazine	HYD0-LCML-MH	Hydrazine in Mainstream emission by LC-MS/MS - Linear Smoking
Hydrogen Cyanide	HCNC-CFAL-MH	Hydrogen Cyanide in Mainstream emission by Continuous Flow Analysis, Health Canada List - Linear Smoking
Menthol	THM5-GCCL-MH	Menthol in Mainstream emission by GC-FID, Panel 5 - Linear Smoking
Metals	HG_C-HGCL-MH	Mercury in Mainstream emission by Cold Vapor Atomic Absorption Spectroscopy, Health Canada List - Linear Smoking
	MET0-ICPE-MH	Metals in Mainstream emission by ICP-MS, Health Canada List - Rotary Smoking with Electrostatic Precipitation

Thermally Heated Product Emissions	Test Code	Description
	MET1-ICPE-MH	Metals in Mainstream emission by ICP-MS, Panel 1 - Rotary Smoking with Electrostatic Precipitation
	METC-ICPE-MH	Metals in Mainstream emission by ICP-MS, Health Canada List - Rotary Smoking with Electrostatic Precipitation
	METH-ICPE-MH	Metals in Mainstream emission by ICP-MS- Rotary Smoking with Electrostatic Precipitation
	MEU0-ICPE-MH	Metals in Mainstream emission by ICP-MS using Ultrapure Reagents, Full Panel - Rotary Smoking with Electrostatic Precipitation (HNB)
	MEU1-ICPE-MH	Metals in Mainstream emission by ICP-MS using Ultrapure Reagents, Panel 1 - Rotary Smoking with Electrostatic Precipitation
	MEUC-ICPE-MH	Metals in Mainstream emission by ICP-MS using Ultrapure Reagents, Health Canada List - Rotary Smoking with Electrostatic Precipitation (HNB)
Nicotine Degradation Products	DEG0-LCML-MH	Nicotine Related Impurities in Mainstream emission by LC-MS/MS, Full Panel - Linear Smoking
	DEG1-LCML-MH	Nicotine Related Impurities in Mainstream emission by LC-MS/MS, Panel 1 - Linear Smoking
Nitrosamines, Tobacco Specific	TSN0-LCML-MH	Tobacco Specific Nitrosamines in Mainstream emission by LC-MS/MS, Full Panel - Linear Smoking
	TSNH-LCML-MH	Tobacco Specific Nitrosamines in Mainstream emission by LC-MS/MS, HPHC List - Linear Smoking
Nitrosamines, Volatile	VNA0-LCML-MH	Volatile Nitrosamines in Mainstream emission by LC-MS/MS, Full Panel - Linear Smoking
	VNAA-LCML-MH	N-nitrosodiethanolamine (NDELA) in Mainstream emission by LC-MS/MS, Abbreviated HPHC list - Linear Smoking
	VNAH-LCML-MH	Volatile Nitrosamines in Mainstream emission by LC-MS/MS, HPHC List - Linear Smoking

Thermally Heated Product Emissions	Test Code	Description
NOX	NOXC-NOXX-MH	Nitrogen Oxides in Mainstream emission using a Chemiluminescence Analyzer, Health Canada List
PH	PH_C-PHMS-MH	pH in Mainstream emission by Electrode, Health Canada List - Single-Port Smoking
Phenols	PHN0-LCFL-MH	Phenols in Mainstream emission by HPLC-FLU, Full Panel - Linear Smoking
	PHNH-LCFL-MH	Phenols in Mainstream emission by HPLC-FLU, HPHC List - Linear Smoking
Polynuclear Aromatic Hydrocarbons	PAA0-SIML-MH	Polynuclear Aromatic Hydrocarbons and Aza-arenes in Mainstream emission by GC-MS (SIM), Full Panel - Linear Smoking
	PAH0-SIML-MH	Polynuclear Aromatic Hydrocarbons in Mainstream emission by GC-MS (SIM), Full Panel - Linear Smoking
	PAH3-SIML-MH	Benzo(a)pyrene in Mainstream emission by GC-MS (SIM) - Linear Smoking
	PAHH-SIML-MH	Polynuclear Aromatic Hydrocarbons in Mainstream emission by GC-MS (SIM), HPHC List - Linear Smoking
Radio nucleotides	POLO-SUBL-MH	Polonium-210 and Lead-210 in Mainstream emission (Subcontracted), Full Panel - Linear Smoking
	POL1-SUBL-MH	Polonium-210 in Mainstream emission (Subcontracted), Panel 1 - Linear Smoking
	U__0-SUBL-MH	Uranium-235 and Uranium-238 in Mainstream emission (Subcontracted), Full Panel - Linear Smoking
Tar Nicotine and CO	COX0-NDIL-MH	Carbon Monoxide and Carbon Dioxide in Mainstream emission using Nondispersive Infrared Detection, Full Panel - Linear Smoking
	COXC-NDIL-MH	Carbon Monoxide in Mainstream emission using Nondispersive Infrared Detection, Health Canada List - Linear Smoking
	SOLO-LCUL-MH	Solanesol in Mainstream emission by HPLC-UV, Full Panel - Linear Smoking

Thermally Heated Product Emissions	Test Code	Description
	TNCC-GCCL-MH	Tar, Nicotine and Carbon Monoxide in Mainstream emission by GC-TCD/FID, Health Canada List - Linear Smoking
	TNCH-GCCL-MH	Nicotine and Carbon Monoxide in Mainstream emission by GC-TCD/FID, HPHC List - Linear Smoking(STM)
Volatiles	ALAO-SIML-MH	Allyl Alcohol in Mainstream emission by GC-MS (SIM), Full Panel - Linear Smoking
	VOLO-SIML-MH	Volatile Compounds in Mainstream emission by GC-MS (SIM), Full Panel - Linear Smoking(default-HNB)
	VOL1-GCML-MH	Volatile Compounds in Mainstream emission by GC-MS, Panel 1 - Linear Smoking
	VOLA-SIML-MH	Volatile Compounds in Mainstream emission by GC-MS (SIM), Abbreviated HPHC list - Linear Smoking
	VOLH-SIML-MH	Volatile Compounds in Mainstream emission by GC-MS (SIM), HPHC List - Linear Smoking
	VONO-TEAL-MH	2-nitropropane in Mainstream emission by GC-TEA, Full Panel - Linear Smoking
Volatiles, Semi-	SVC0-SIML-MH	Semi-Volatile Compounds in Mainstream emission by GC-MS (SIM), Full Panel - Linear Smoking
	SVC1-SIML-MH	Semi-Volatile Compounds in Mainstream emission by GC-MS (SIM), Panel 1 - Linear Smoking
	SVE0-TQUL-MH	Ethyl Carbamate in Mainstream emission by GC-MS (TQU), Full Panel - Linear Smoking

Mainstream Smoke

Mainstream Smoke	Test Code	Description
Additives	ARF0-SIML-MS	Aromatic Flavours in Mainstream Smoke by GC-MS (SIM), Full Panel - Linear Smoking
	ARF1-SIML-MS	Aromatic Flavours in Mainstream Smoke by GC-MS (SIM), Panel 1 - Linear Smoking
	ARF2-SIML-MS	Aromatic Flavours in Mainstream Smoke by GC-MS (SIM), Panel 2 - Linear Smoking
	ARF4-SIML-MS	Aromatic Flavours in Mainstream Smoke by GC-MS (SIM), Full Panel - Linear Smoking
	ARPO-SIML-MS	Peppermint Oil in Mainstream Smoke by GC-MS (SIM), Full Panel - Linear Smoking
	CAFO-LCUL-MS	Caffeic Acid in Mainstream Smoke by HPLC-UV, Full Panel - Linear Smoking
	EUGC-LCUL-MS	Eugenol in Mainstream Smoke by HPLC-UV, Health Canada List - Linear Smoking
	SOR0-LCUL-MS	Potassium Sorbate in Mainstream Smoke by HPLC-UV - Linear Smoking
	SOR0-LCUR-MS	Sorbic Acid in Mainstream Smoke by HPLC-UV, Health Canada List - Rotary Smoking
Ammonia	NH30-ICER-MS	Ammonia in Mainstream Smoke by Ion-Chromatography (EC) Enhanced Method, Full Panel - Rotary Smoking
	NH3C-ICCL-MS	Ammonia in Mainstream Smoke by Ion-Chromatography (EC), Health Canada List - Linear Smoking
	NH3C-ICCR-MS	Ammonia in Mainstream Smoke by Ion-Chromatography (EC), Health Canada List - Rotary Smoking
Aromatic Amines	AMIO-GCML-MS	Aromatic Amines in Mainstream Smoke by GC-MS, Full Panel - Linear Smoking
	AMIO-GCMR-MS	Aromatic Amines in Mainstream Smoke by GC-MS, Full Panel - Rotary Smoking
	AMIO-GCNL-MS	Aromatic Amines in Mainstream Smoke by GC-MS (NCI), Full Panel - Linear Smoking, low-level method.
	AMIA-GCML-MS	Aromatic Amines in Mainstream Smoke by GC-MS, Abbreviated HPHC list - Linear Smoking
	AMIA-GCMR-MS	Aromatic Amines in Mainstream Smoke by GC-MS, Abbreviated HPHC list - Rotary Smoking(default)

Mainstream Smoke	Test Code	Description
	AMIA-GCNL-MS	Aromatic Amines in Mainstream Smoke by GC-MS (NCI), Abbreviated HPHC list - Linear Smoking, low level method
	AMIC-GCMR-MS	Aromatic Amines in Mainstream Smoke by GC-MS, Health Canada List - Rotary Smoking
	AMIH-GCML-MS	Aromatic Amines in Mainstream Smoke by GC-MS, HPHC List - Linear Smoking
	AMIH-GCMR-MS	Aromatic Amines in Mainstream Smoke by GC-MS, HPHC List - Rotary Smoking (default)
	AMIH-GCNL-MS	Aromatic Amines in Mainstream Smoke by GC-MS (NCI), HPHC List - Linear Smoking, low-level method.
Aromatic Amines, Heterocyclic	HAAO-LCML-MS	Heterocyclic Aromatic Amines in Mainstream Smoke by LC-MS/MS, Full Panel - Linear Smoking
	HAAH-LCML-MS	Heterocyclic Aromatic Amines in Mainstream Smoke by LC-MS/MS, HPHC List - Linear Smoking
Carbonyls	CARA-LCUL-MS	Carbonyls in Mainstream Smoke by HPLC-UV, Abbreviated HPHC list - Linear Smoking
	CARC-LCUL-MS	Carbonyls in Mainstream Smoke by HPLC-UV, Health Canada List - Linear Smoking
	CARH-LCUL-MS	Carbonyls in Mainstream Smoke by HPLC-UV, HPHC List - Linear Smoking
	DCA0-SIML-MS	Carbonyls and Dicarbonyls in Mainstream Smoke by GC-MS (SIM), Full Panel - Linear Smoking
	DCA1-SIML-MS	Carbonyls and Dicarbonyls in Mainstream Smoke by GC-MS (SIM), Panel 1 - Linear Smoking
	DCA2-SIML-MS	Carbonyls in Mainstream Smoke by GC-MS (SIM), Panel 2 - Linear Smoking
Dioxins and Furans	DIO0-SUBR-MS	Chlorinated Dioxins and Furans in Mainstream Smoke (Subcontracted), Full Panel - Rotary Smoking
Humectants, Nicotine and CO	THM0-GCCR-MS	Nicotine, Water, Tar and Select Humectants in Mainstream Smoke by GC-TCD/FID, Full Panel - Rotary Smoking
	TNC0-GCCL-MS	Tar, Nicotine, Carbon Monoxide, Humectants, Menthol and Triacetin in Mainstream Smoke by GC-TCD/FID, Full Panel - Linear Smoking

Mainstream Smoke	Test Code	Description
	TNC1-GCCL-MS	Tar, Nicotine, Carbon Monoxide, Menthol, Glycerol, Propylene Glycol, Triacetin in Mainstream Smoke by GC-TCD/FID, Panel 1 - Linear Smoking
	TNC2-GCCL-MS	Tar, Nicotine, Carbon Monoxide, Glycerol, Glycidol, Propylene Glycol, Triacetin in Mainstream Smoke by GC-TCD/FID, Panel 2 - Linear Smoking
Humectants	THM4-GCCL-MS	Diethylene Glycol, Glycerol, Menthol, Propylene Glycol, Triacetin in Mainstream Smoke by GC-TCD/FID, Panel 4 - Linear Smoking (STM)
Humectants and Nicotine	THM0-GCCL-MS	Tar, Nicotine, Humectants, Menthol and Triacetin in Mainstream Smoke by GC-TCD/FID, Full Panel - Linear Smoking
Hydrazine	HYD0-LCML-MS	Hydrazine in Mainstream Smoke by LC-MS/MS - Linear Smoking
	HYD0-LCMR-MS	Hydrazine in Mainstream Smoke by LC-MS/MS, Full Panel - Rotary Smoking
Hydrogen Cyanide	HCNC-CFAL-MS	Hydrogen Cyanide in Mainstream Smoke by Continuous Flow Analysis, Health Canada List - Linear Smoking
Menthol	THM5-GCCL-MS	Menthol in Mainstream Smoke by GC-FID, Panel 5 - Linear Smoking
Metals	HG_C-HGCL-MS	Mercury in Mainstream Smoke by Cold Vapor Atomic Absorption Spectroscopy, Health Canada List - Linear Smoking
	HG_C-HGCR-MS	Mercury in Mainstream Smoke by Cold Vapor Atomic Absorption Spectroscopy, Health Canada List - Rotary Smoking
	MET0-ICPE-MS	Metals in Mainstream Smoke by ICP-MS, Health Canada List - Rotary Smoking with Electrostatic Precipitation
	MET1-ICPE-MS	Metals in Mainstream Smoke by ICP-MS, Panel 1 - Rotary Smoking with Electrostatic Precipitation
	METC-ICPE-MS	Metals in Mainstream Smoke by ICP-MS, Health Canada List - Rotary Smoking with Electrostatic Precipitation
	METH-ICPE-MS	Metals in Mainstream Smoke by ICP-MS, HPHC List - Rotary Smoking with Electrostatic Precipitation

Mainstream Smoke	Test Code	Description
	MEU0-ICPE-MS	Metals in Mainstream Smoke by ICP-MS using Ultrapure Reagents, Full Panel - Rotary Smoking with Electrostatic Precipitation, low level method.
	MEU1-ICPE-MS	Metals in Mainstream Smoke by ICP-MS using Ultrapure Reagents, Panel 1 - Rotary Smoking with Electrostatic Precipitation, low level method.
	MEUC-ICPE-MS	Metals in Mainstream Smoke by ICP-MS using Ultrapure Reagents, Health Canada List - Rotary Smoking with Electrostatic Precipitation, low level method.
	MEUH-ICPE-MS	Metals in Mainstream Smoke by ICP-MS using Ultrapure Reagents, HPHC List - Rotary Smoking with Electrostatic Precipitation, low level method.
Nicotine Degradation Products	DEG0-LCML-MS	Nicotine Related Impurities in Mainstream Smoke by LC-MS/MS, Full Panel - Linear Smoking
	DEG1-LCML-MS	Nicotine Related Impurities in Mainstream Smoke by LC-MS/MS, Panel 1 - Linear Smoking
Nitrosamines, Tobacco Specific	TSN0-LCML-MS	Tobacco Specific Nitrosamines in Mainstream Smoke by LC-MS/MS, Full Panel - Linear Smoking
	TSNC-TEAR-MS	Tobacco Specific Nitrosamines in Mainstream Smoke by GC-TEA, Health Canada List - Rotary Smoking
	TSNH-LCML-MS	Tobacco Specific Nitrosamines in Mainstream Smoke by LC-MS/MS, HPHC List - Linear Smoking
Nitrosamines, Volatile	VNA0-LCML-MS	Volatile Nitrosamines in Mainstream Smoke by LC-MS/MS, Full Panel - Linear Smoking
	VNA0-LCMR-MS	Volatile Nitrosamines in Mainstream Smoke by LC-MS/MS, Full Panel - Rotary Smoking

Mainstream Smoke	Test Code	Description
	VNAA-LCML-MS	N-nitrosodiethanolamine (NDELA) in Mainstream Smoke by LC-MS/MS, Abbreviated HPHC list - Linear Smoking
	VNAA-LCMR-MS	N-nitrosodiethanolamine (NDELA) in Mainstream Smoke by LC-MS/MS, Abbreviated HPHC list - Rotary Smoking
	VNAH-LCML-MS	Volatile Nitrosamines in Mainstream Smoke by LC-MS/MS, HPHC List - Linear Smoking
	VNAH-LCMR-MS	Volatile Nitrosamines in Mainstream Smoke by LC-MS/MS, HPHC List - Rotary Smoking
NOX	NOXC-NOXX-MS	Nitrogen Oxides in Mainstream Smoke using a Chemiluminescence Analyzer, Health Canada List
Particulate Bound Organics	PBO0-SIML-MS	Particulate Bound Organics by GC-MS (SIM) - Linear Smoking
PH	PH_C-PHMS-MS	pH in Mainstream Smoke by Electrode, Health Canada List - Single-Port Smoking
Phenols	PHEC-LCFL-MS	Phenols in Mainstream Smoke by HPLC-FLU, Health Canada List - Linear Smoking
	PHNO-LCFL-MS	Phenols in Mainstream Smoke by HPLC-FLU, Full Panel - Linear Smoking
	PHNH-LCFL-MS	Phenols in Mainstream Smoke by HPLC-FLU, HPHC List - Linear Smoking
Polynuclear Aromatic Hydrocarbons	BAPC-LCFL-MS	Benzo(a)pyrene in Mainstream Smoke by HPLC-FLU, Health Canada List - Linear Smoking
	PAA0-SIML-MS	Polynuclear Aromatic Hydrocarbons and Aza-arenes in Mainstream Smoke by GC-MS (SIM), Full Panel - Linear Smoking
	PAA0-SIMR-MS	Polynuclear Aromatic Hydrocarbons and Aza-arenes in Mainstream Smoke by GC-MS (SIM), Full Panel - Rotary Smoking
	PAH0-SIML-MS	Polynuclear Aromatic Hydrocarbons in Mainstream Smoke by GC-MS (SIM), Full Panel - Linear Smoking
	PAH0-SIMR-MS	Polynuclear Aromatic Hydrocarbons in Mainstream Smoke by GC-MS (SIM), Full Panel - Rotary Smoking
	PAH3-SIML-MS	Benzo(a)pyrene in Mainstream Smoke by GC-MS (SIM) - Linear Smoking
	PAH3-SIMR-MS	Benzo(a)pyrene in Mainstream Smoke by GC-MS (SIM) - Rotary Smoking (default)

Mainstream Smoke	Test Code	Description
	PAHH-SIML-MS	Polynuclear Aromatic Hydrocarbons in Mainstream Smoke by GC-MS (SIM), HPHC List - Linear Smoking (HNB Product Only)
	PAHH-SIMR-MS	Polynuclear Aromatic Hydrocarbons in Mainstream Smoke by GC-MS (SIM), HPHC List - Rotary Smoking (Conventional Product Only)
Radio nucleotides	POLO-SUBL-MS	Polonium-210 and Lead-210 in Mainstream Smoke (Subcontracted), Full Panel - Linear Smoking
	POL1-SUBL-MS	Polonium-210 in Mainstream Smoke (Subcontracted), Panel 1 - Linear Smoking
	U__0-SUBL-MS	Uranium-235 and Uranium-238 in Mainstream Smoke (Subcontracted), Full Panel - Linear Smoking
Tar Nicotine and CO	COX0-NDIL-MS	Carbon Monoxide and Carbon Dioxide in Mainstream Smoke using Nondispersive Infrared Detection, Full Panel - Linear Smoking
	COX2-NDIL-MS	Carbon Dioxide* in Mainstream Smoke using Nondispersive Infrared Detection, Panel 2 - Linear Smoking
	COXC-NDIL-MS	Carbon Monoxide in Mainstream Smoke using Nondispersive Infrared Detection, Health Canada List - Linear Smoking
	FNIO-GCML-MS	Free-base Nicotine in Mainstream Smoke by GC-MS - Linear Smoking
	SOLO-LCUL-MS	Solanesol in Mainstream Smoke by HPLC-UV, Full Panel - Linear Smoking
	TNCC-GCCL-MS	Tar, Nicotine and Carbon Monoxide in Mainstream Smoke by GC-TCD/FID, Health Canada List - Linear Smoking
	TNCC-GCCR-MS	Tar, Nicotine and Carbon Monoxide in Mainstream Smoke by GC-TCD/FID, Health Canada List - Rotary Smoking (STM)
	TNCH-GCCL-MS	Nicotine and Carbon Monoxide in Mainstream Smoke by GC-TCD/FID, HPHC List - Linear Smoking(STM)
	TNFC-GCCL-MS	Tar, Nicotine, Carbon Monoxide and Filter Efficiency in Mainstream Smoke by GC-TCD/FID, Health Canada List - Linear Smoking(STM)

Mainstream Smoke	Test Code	Description
Volatiles	ALA0-SIML-MS	Allyl Alcohol in Mainstream Smoke by GC-MS (SIM), Full Panel - Linear Smoking
	VOL0-GCML-MS	Volatile Compounds in Mainstream Smoke by GC-MS, Full Panel - Linear Smoking
	VOL0-GCMR-MS	Volatile Compounds in Mainstream Smoke by GC-MS, Full Panel - Rotary Smoking
	VOL0-SIML-MS	Volatile Compounds in Mainstream Smoke by GC-MS (SIM), Full Panel - Linear Smoking(default-HNB)
	VOL1-GCML-MS	Volatile Compounds in Mainstream Smoke by GC-MS, Panel 1 - Linear Smoking
	VOL1-GCMR-MS	Volatile Compounds in Mainstream Smoke by GC-MS, Panel 1 - Rotary Smoking(STM)
	VOL1-SIML-MS	Volatile Compounds in Mainstream Smoke by GC-MS (SIM), Panel 1 - Linear Smoking
	VOLA-GCML-MS	Volatile Compounds in Mainstream Smoke by GC-MS, Abbreviated HPHC list - Linear Smoking
	VOLA-GCMR-MS	Volatile Compounds in Mainstream Smoke by GC-MS, Abbreviated HPHC list - Rotary Smoking
	VOLA-SIML-MS	Volatile Compounds in Mainstream Smoke by GC-MS (SIM), Abbreviated HPHC list - Linear Smoking
	VOLC-GCMR-MS	Volatile Compounds in Mainstream Smoke by GC-MS, Health Canada List - Rotary Smoking
	VOLH-GCML-MS	Volatile Compounds in Mainstream Smoke by GC-MS, HPHC List - Linear Smoking
	VOLH-GCMR-MS	Volatile Compounds in Mainstream Smoke by GC-MS, HPHC List - Rotary Smoking
	VOLH-SIML-MS	Volatile Compounds in Mainstream Smoke by GC-MS (SIM), HPHC List - Linear Smoking
	VON0-TEAL-MS	2-nitropropane in Mainstream Smoke by GC-TEA, Full Panel - Linear Smoking
	VON0-TEAR-MS	2-nitropropane in Mainstream Smoke by GC-TEA, Full Panel - Rotary Smoking

Mainstream Smoke	Test Code	Description
Volatiles, Semi-	AAAH-SIMR-MS	Acetamide and Acrylamide in Mainstream Smoke by GC-MS (SIM), HPHC List - Rotary Smoking
	SVC0-GCML-MS	Semi-Volatile Compounds in Mainstream Smoke by GC-MS (SIM), Full Panel - Linear Smoking
	SVC0-GCMR-MS	Semi-Volatile Compounds in Mainstream Smoke by GC-MS, Full Panel - Rotary Smoking
	SVC0-SIML-MS	Semi-Volatile Compounds in Mainstream Smoke by GC-MS (SIM), Full Panel - Linear Smoking, low-level method.
	SVC1-GCML-MS	Semi-Volatile Compounds in Mainstream Smoke by GC-MS, Panel 1 - Linear Smoking
	SVC1-SIML-MS	Semi-Volatile Compounds in Mainstream Smoke by GC-MS (SIM), Panel 1 - Linear Smoking, low-level method.
	SVCC-GCMR-MS	Semi-Volatile Compounds in Mainstream Smoke by GC-MS, Health Canada List - Rotary Smoking
	SVCH-GCMR-MS	Semi-Volatile Compounds in Mainstream Smoke by GC-MS, HPHC List - Rotary Smoking
	SVE0-TQUL-MS	Ethyl Carbamate in Mainstream Smoke by GC-MS (TQU), Full Panel - Linear Smoking
	SVE0-TQUR-MS	Ethyl Carbamate in Mainstream Smoke by GC-MS (TQU), Full Panel - Rotary Smoking

Sidestream Smoke

Sidestream Smoke	Test Code	Description
Additives	EUG0-LCUL-SS	Eugenol in Sidestream Smoke by HPLC-UV, Full Panel - Linear Smoking
Ammonia	NH30-ICEL-SS	Ammonia in Sidestream Smoke by Ion-Chromatography (EC) Enhanced Method, Full Panel - Linear Smoking
	NH3C-ICCL-SS	Ammonia in Sidestream Smoke by Ion-Chromatography (EC), Health Canada List - Linear Smoking
Aromatic Amines	AMIC-GCML-SS	Aromatic Amines in Sidestream Smoke by GC-MS, Health Canada List - Linear Smoking
Carbonyls	CARC-LCUL-SS	Carbonyls in Sidestream Smoke by HPLC-UV, Health Canada List - Linear Smoking
Hydrogen Cyanide	HCNC-CFAL-SS	Hydrogen Cyanide in Sidestream Smoke by Continuous Flow Analysis, Health Canada List - Linear Smoking
Metals	HG_C-HGCL-SS	Mercury in Sidestream Smoke by Cold Vapor Atomic Absorption Spectroscopy, Health Canada List - Linear Smoking
	META-ICPL-SS	Metals in Sidestream Smoke by ICP-MS, Abbreviated HPHC list - Linear Smoking
	METC-ICPL-SS	Metals in Sidestream Smoke by ICP-MS, Health Canada List - Linear Smoking
Nitrosamines, Tobacco Specific	TSN0-LCML-SS	Tobacco Specific Nitrosamines in Sidestream Smoke by LC-MS/MS, Full Panel - Linear Smoking
	TSNC-TEAL-SS	Tobacco Specific Nitrosamines in Sidestream Smoke by GC-TEA, Health Canada List - Linear Smoking
NOX	NOXC-NOXS-SS	Nitrogen Oxides in Sidestream Smoke using a Chemiluminescence Analyzer, Health Canada List
PH	PH_0-PHMS-SS	pH in Sidestream Smoke by Electrode, Full Panel - Single-Port Smoking
Phenols	PHEC-LCFL-SS	Phenols in Sidestream Smoke by HPLC-FLU, Health Canada List - Linear Smoking
	PHNO-LCFL-SS	Phenols in Sidestream Smoke by HPLC-FLU, Full Panel - Linear Smoking

Sidestream Smoke	Test Code	Description
Polynuclear Aromatic Hydrocarbons	BAPC-SIML-SS	Benzo[a]pyrene in Sidestream Smoke by GC-MS (SIM), Health Canada List - Linear Smoking
	PAH0-SIML-SS	Polynuclear Aromatic Hydrocarbons in Sidestream Smoke by GC-MS (SIM), Full Panel - Linear Smoking
Radio nucleotides	POLO-SUBL-SS	Polonium-210 and Lead-210 in Sidestream Smoke (Subcontracted), Full Panel - Linear Smoking
	POL1-SUBL-SS	Polonium-210 in Sidestream Smoke (Subcontracted), Panel 1 - Linear Smoking
Tar Nicotine and CO	COX0-NDIL-SS	Carbon Monoxide, Carbon Dioxide in Sidestream Smoke using Nondispersive Infrared Detection, Full Panel - Linear Smoking
	COX2-NDIL-SS	Carbon Dioxide* in Sidestream Smoke using Nondispersive Infrared Detection, Panel 2 - Linear Smoking
	COXC-NDIL-SS	Carbon Monoxide in Sidestream Smoke using Nondispersive Infrared Detection, Health Canada List - Linear Smoking
	TNCC-GCCL-SS	Tar and Nicotine in Sidestream Smoke by GC-TCD/FID, Health Canada List - Linear Smoking
Volatiles	VOLC-GCML-SS	Volatile Compounds in Sidestream Smoke by GC-MS, Health Canada List - Linear Smoking
Volatiles, Semi-	SVCC-GCML-SS	Semi-Volatile Compounds in Sidestream Smoke by GC-MS, Health Canada List - Linear Smoking

Tobacco Products

Tobacco Products	Test Code	Description
Additives	ARF0-SIMN-WT	Aromatic Flavourants in Tobacco Products by GC-MS (SIM), Full Panel
	ARF1-SIMN-WT	Menthol and Carvone in Tobacco Products by GC-MS (SIM), Full Panel
	ARF4-SIMN-WT	Aromatic Flavourants in Tobacco Products by GC-MS (SIM), Panel 4
	ARPO-SIMN-WT	Peppermint Oil in Tobacco Products
	EFLO-SIMN-WT	Ethyl salicylate and Methyl salicylate in Tobacco Products by GC-MS (SIM)
	FLA0-SPML-WT	Flavourants in tobacco products by SPME GC/MS
	COU0-LCMN-WT	Coumarin in Tobacco Products by LC-MS/MS
	EUGC-LCUN-WT	Eugenol in Tobacco Products by HPLC-UV, Health Canada List
	GLH0-LCUN-WT	Glycyrrhizic Acid in Tobacco Products by HPLC-UV, Full Panel
	PROC-GCFN-WT	Sodium Propionate in Tobacco Products by GC-FID, Health Canada List
	SORC-LCUN-WT	Sorbic Acid in Tobacco Products by HPLC-UV, Health Canada List
	THE0-LCUN-WT	Theobromine in Tobacco Products by HPLC-UV, Full Panel
Aflatoxins	AFL0-LCMN-WT	Aflatoxin B1 in Tobacco Products by LC-MS/MS, Full Panel
Ammonia	NH30-CFAN-WT	Ammonia in Tobacco Products by Continuous Flow Analysis
	NH30-ICEN-WT	Ammonia in Tobacco Products by Ion-Chromatography (EC) Enhanced Method, Full Panel
	NH3C-ICCN-WT	Ammonia in Tobacco Products by Ion-Chromatography (EC), Health Canada List
Aromatic Amines	AMIO-GCMN-WT	Aromatic Amines in Tobacco Products by GC-MS, Full Panel

Tobacco Products	Test Code	Description
Carbonyls	CAR0-LCUN-WT	Carbonyls in Tobacco Products by HPLC-UV, Full Panel
	CARA-LCUN-WT	Carbonyls in Tobacco Products by HPLC-UV, Abbreviated HPHC list
	CARH-LCUN-WT	Carbonyls in Tobacco Products by HPLC-UV, HPHC List
	DCA0-SIMN-WT	Carbonyls in Tobacco Products by GC-MS (SIM), Full Panel
	DCA1-SIMN-WT	Carbonyls in Tobacco Products by GC-MS (SIM), Panel 1
Chloride	CHL0-TTRN-WT	Chloride in Tobacco Products by Titration, Full Panel
Humectants	HUM0-GCFN-WT	Humectants and Menthol in Tobacco Products by GC-FID, Full Panel
	HUMC-GCFN-WT	Humectants in Tobacco Products by GC-FID, Health Canada List
	TRIC-GCFN-WT	Triacetin in Tobacco Products by GC-FID, Health Canada List
Menthol	HUM1-GCFN-WT	Menthol in Tobacco Products by GC-FID, Panel 1
Metals	MET0-AESN-WT	Metals in Tobacco Products by ICP-AES, Full Panel
	META-AESN-WT	Metals in Tobacco Products by ICP-AES, Abbreviated HPHC list
	METC-AESN-WT	Metals in Tobacco Products by ICP-AES, Health Canada List
	METH-AESN-WT	Metals in Tobacco Products by ICP-AES, HPHC List
	MTM0-AESN-WT	Macroelements in Tobacco Products by ICP-AES, Full Panel
Microbiology	ACC0-SUBN-WT	Total Aerobic Colony Count in Tobacco Products (Subcontracted)
	YMC0-SUBN-WT	Total Yeast and Mould Count in Tobacco Products (Subcontracted)
Moisture	KFW0-KFTN-WT	Water in Tobacco Products by Karl-Fisher Titration
	MOI0-GCTN-WT	Water in Tobacco Products by GC-TCD, Full Panel
	MOI0-OVEN-WT	Moisture in Tobacco Products using an Oven (AOAC966.02 Method - 99.5°C)
	MOI1-OVEN-WT	Moisture in Tobacco Products using an Oven (Modified Method - 110°C)

Tobacco Products	Test Code	Description
Nicotine Alkaloids	ALKA-GCSN-WT	Nicotine in Tobacco Products by GC-TSD, Abbreviated HPHC list
	ALKC-GCSN-WT	Alkaloids in Tobacco Products by GC-TSD, Health Canada List
	ALKH-GCSN-WT	Alkaloids in Tobacco Products by GC-TSD, HPHC List
	NICO-GCFN-WT	Nicotine in Tobacco Products by GC-FID, Full Panel
	PONO-LCMN-WT	Pseudooxynicotine in Tobacco Products by LC-MS/MS, Full Panel
	PONO-ULMN-WT	Pseudooxynicotine in Tobacco Products by UPLC-MS/MS, Full Panel
Nicotine Alkaloids and Sugars	AA30-CFAN-WT	Nicotine and Sugars (Total and Reducing) in Tobacco Products by Continuous Flow Analysis, Full Panel
	RSN0-CFAN-WT	Nicotine and Reducing Sugars in Tobacco Products by Continuous Flow Analysis, Full Panel
	TSU0-CFAN-WT	Total Sugars in Tobacco Products by Continuous Flow Analysis, Full Panel
Nitrogen	NIT0-SUBN-WT	Total Nitrogen in Tobacco Products (Subcontracted)
	NO20-SPHN-WT	Nitrite in Tobacco Products by Spectrophotometry
	NO21-SPHN-WT	Nitrite in Tobacco Products by Automated Spectrophotometry
	PN_0-SUBN-WT	Protein Nitrogen in Tobacco Products (Subcontracted)
	NO3C-CFAN-WT	Nitrate in Tobacco Products by Continuous Flow Analysis, Health Canada List
Nitrosamines, Tobacco Specific	TSN0-LCMN-WT	Tobacco Specific Nitrosamines in Tobacco Products by LC-MS/MS, Full Panel
	TSNC-TEAN-WT	Tobacco Specific Nitrosamines in Tobacco Products by GC-TEA, Health Canada List
	TSNH-LCMN-WT	Tobacco Specific Nitrosamines in Tobacco Products by LC-MS/MS, HPHC List
Nitrosamines, Volatile	VN30-LCMN-WT	N-nitrosodibenzylamine (NDBzA) in Tobacco Products by LC-MS/MS, Full Panel
	VNA0-LCMN-WT	Volatile Nitrosamines in Tobacco Products by LC-MS/MS, Full Panel
	NSA0-LCMN-WT	N-nitrososarcosine (NSAR) in Tobacco Products by LC-MS/MS

Tobacco Products	Test Code	Description
	VN20-LCMN-WT	Volatile Nitrosamines in Tobacco Products by LC-MS/MS, Full Panel
	VNAH-LCMN-WT	Volatile Nitrosamines in Tobacco Products by LC-MS/MS, HPHC List
Organic Acids	OAC0-LCUN-WT	Benzoic Acid in whole tobacco by HPLC-UV, Full Panel
PH	PH_C-PHMN-WT	pH of Tobacco Products by Electrode, Health Canada List
Phenols	PHN0-LCFN-WT	Phenols in Tobacco Products by HPLC-FLU, Full Panel
Physical Measurements	WA_0-SUBN-WT	Water Activity in Tobacco Products (Subcontracted)
Polynuclear Aromatic Hydrocarbons	BAPC-LCFN-WT	Benzo(a)pyrene in Tobacco Products by HPLC-FLU, Health Canada List
	NSP1-SIMN-WT	Benzo(a)pyrene in Tobacco Products by GC-MS (SIM)
	PAH0-SIMN-WT	Polynuclear Aromatic Hydrocarbons in Tobacco Products by GC-MS (SIM), Full Panel
	PAH3-SIMN-WT	Benzo(a)pyrene in Tobacco Products by GC-MS (SIM), Panel 1
	PAHH-SIMN-WT	Polynuclear Aromatic Hydrocarbons in Tobacco Products by GC-MS (SIM), HPHC List
Polyphenols and Caffeic Acid	PPH0-LCUN-WT	Polyphenols and Caffeic Acid in Tobacco Products by HPLC-UV, Full Panel
Radio nucleotides	POL0-SUBN-WT	Polonium-210 and Lead-210 in Tobacco Products (Subcontracted), Full Panel
	POL1-SUBN-WT	Polonium-210 in Tobacco Products (Subcontracted)
	U__0-SUBN-WT	Uranium-235 and Uranium-238 in Tobacco Products (Subcontracted)
Volatiles	VOLO-GCMN-WT	Volatile Compounds in Tobacco Products by GC-MS, Full Panel
Volatiles, Semi-	ACR0-LCMN-WT	Acrylamide in Tobacco Products by LC-MS/MS, Full Panel
	SVE0-SIMN-WT	Ethyl Carbamate in Tobacco Products by GC-MS (SIM), Full Panel

Toxicology

Toxicology	Test Code	Description
Ames Reverse Mutagenicity (TA98, TA100, TA102, TA1535, TA1537, YG1021, YG1024, YG1026, and YG1029 Revertants)	AME0-STYL-MV	In Vitro ames reverse mutagenicity (+S9, -S9) on E-Cigarette Aerosol
	AME0-STYN-EL	In Vitro ames reverse mutagenicity (+S9, -S9) on E-Liquids
	AME0-STYL-MH	In Vitro ames reverse mutagenicity (+S9, -S9) on Mainstream Emissions from Thermally Heated Products
	AME0-STYN-WT	In Vitro ames reverse mutagenicity (+S9, -S9) on Tobacco Products
	AME0-STYL-MS	In Vitro ames reverse mutagenicity (+S9, -S9) on Mainstream Smoke
Mouse Lymphoma Assay (MLA)	MLA0-MLCL-MV	Mouse Lymphoma Assay using Mouse Lymphoma Cells (L5178Y/tk+/- 3.7.2C) on E-Cigarette Aerosol
	MLA0-MLCN-EL	Mouse Lymphoma Assay using Mouse Lymphoma Cells (L5178Y/tk+/- 3.7.2C) on E-Liquids
	MLA0-MLCL-MH	Mouse Lymphoma Assay using Mouse Lymphoma Cells (L5178Y/tk+/- 3.7.2C) on Mainstream Emissions from Thermally Heated Products
	MLA0-MLCR-MS	Mouse Lymphoma Assay using Mouse Lymphoma Cells (L5178Y/tk+/- 3.7.2C) on Mainstream Smoke
Micronucleus Assay	MN_0-CHOL-MV	In Vitro Micronucleus Assay using Chinese Hamster Ovary Cells on E-Cigarette Aerosol
	MN_0-CHON-EL	In Vitro Micronucleus Assay using Chinese Hamster Ovary Cells on E-Liquids
	MN_0-CHOL-MH	In Vitro Micronucleus Assay using Chinese Hamster Ovary Cells on Mainstream Emissions from Thermally Heated Products
	MN_0-CHON-WT	In Vitro Micronucleus Assay using Chinese Hamster Ovary Cells on Tobacco Products
	MN_0-CHOL-MS	In Vitro Micronucleus Assay using Chinese Hamster Ovary Cells on Mainstream Smoke

Toxicology	Test Code	Description
Neutral Red Uptake Assay (NRU)	NRU0-CHOL-MV	In Vitro Neutral Red Uptake Assay (NRU) on E-Cigarette Aerosol
	NRU0-CHON-EL	In Vitro Neutral Red Uptake Assay (NRU) on E-Liquids
	NRU0-CHOL-MH	In Vitro Neutral Red Uptake Assay (NRU) on Mainstream Emissions from Thermally Heated Products
	NRU0-CHON-WT	In Vitro Neutral Red Uptake Assay (NRU) on Tobacco Products
	NRU0-CHOR-MS	In Vitro Neutral Red Uptake Assay (NRU) on Mainstream Smoke
In Vitro Sister Chromatid Exchange (SCE)	SCE0-CHOL-MV	In Vitro Sister Chromatid Exchange using Chinese Hamster Ovary Cells on E-Cigarette Aerosol
	SCE0-CHON-EL	In Vitro Sister Chromatid Exchange using Chinese Hamster Ovary Cells on E-Liquids
	SCE0-CHOL-MH	In Vitro Sister Chromatid Exchange using Chinese Hamster Ovary Cells on Mainstream Emissions from Thermally Heated Products
	SCE0-CHON-WT	In Vitro Sister Chromatid Exchange using Chinese Hamster Ovary Cells on Tobacco Products
	SCE0-CHOR-MS	In Vitro Sister Chromatid Exchange using Chinese Hamster Ovary Cells on Mainstream Smoke
Urine Mutagenicity	UM_0- STYL-BF	Urine Mutagenicity on Urine

Product Physical Properties

Group	Test Code	Description
Ignition Propensity	IP_0-MANN-CG	Ignition Propensity of Cigarettes Determined by Manual Measurement
Moisture	KFW0-KFTN-CG	Water in Cigarettes by Karl-Fisher Titration
Physical Measurements	PHY0-DTSN-CG	Physical Properties of Cigarettes using a Physical Properties Measuring Instrument, Full Panel
	PHY0-MANN-CG	Physical Properties of Cigarettes Determined by Manual Measurement, Full Panel
	PHY1-DTSN-CG	Tip Ventilation of Cigarettes using a Physical Properties Measuring Instrument
	PHY1-MANN-CG	Physical Properties of Cigarettes Determined by Manual Measurement, Panel 1
	PHY2-DTSN-CG	Pressure Drop of Cigarettes using a Physical Properties Measuring Instrument (Open and/or Closed)
	PHY2-MANN-CG	Weight of Conditioned Tobacco
	PHY3-PDIN-CG	Pressure Drop of Cigarette Filters using a Physical Properties Measuring Instrument, Full Panel

Paper and Casing Solutions

Group	Test Code	Description
Physical Properties	PHY0-APTN-PA	Air Permeability of Cigarette Paper using an Air Permeability Testing Instrument
Metals	MTM0-AESN-PA	Macroelements in Cigarette Paper by ICP-AES, Full Panel
Casing Solutions	GLH0-LCUN-WT	Glycyrrhizic Acid in Tobacco Products by HPLC-UV, Full Panel
	THE0-LCUN-WT	Theobromine in Tobacco Products by HPLC-UV, Full Panel

Other Tests

Group	Test Code	Description
Pyrolysis	PYR0-PYRN-SB	Decomposition products by pyrolysis, open GC-MS scan

Analyte Lists

Analyte lists are specific to a test code, and listed below are the full panels available. Availability may vary with the matrix being analyzed.

As a "Centre of Excellence in Analytical Science" Labstat's team of scientist are continually expanding and developing new analytical methods. For the latest developments, LOD/LOQ's and questions please contact our Business Development team at Clientservices@labstat.com or Tel: +1-519-748-5409.

Additives (Flavourants)

Menthol load, carvone, menthofuran, pulegone, δ -decalactone, (-)-terpinen-4-ol, germacrene D, viridiflorol, δ -dodecalactone, limonene, l-menthone, menthone isomer, menthyl acetate, neomenthol, menthol

Pulegone, menthofuran, carvone, γ -decalactone, γ -terpinene, WS-23, α -terpineol, δ -decalactone, β -damascenone, β -damascone, WS-3, α -terpinene, germacrene D, viridiflorol, (-)-terpinen-4-ol, δ -dodecalactone

methyl salicylate, ethyl salicylate

Additives (Flavourants, Semi Quantitative, SPME Open Scan)

(-)- α -pinene, (R)-(-)-carvone, (R)-(+)-limonene, 1-hexanol, 1-octanol, 2,3,5,6-trimethylpyrazine, 2,3,5-trimethylpyrazine, 2,6-dimethylpyrazine, 2-acetylpyrazine, 2-acetylpyrrole, 2-ethyl-1-hexanol, Acetophenone, Amyl alcohol, Anethole, Benzaldehyde, Benzyl acetate, Benzyl alcohol, Benzyl benzoate, Camphene, Citronellol, Dacanal, DL-menthyl acetate, Ethyl acetate, Ethyl butyrate, Ethyl decanoate, Ethyl hexanoate, Ethyl laurate, Ethyl maltol, Ethyl myristate, Ethyl octanoate, Ethyl palmitate, Ethyl vanillin, Eucalyptol, Eugenol, Geraniol, Geranyl acetate, Hexanal, Isoamyl isovalerate, Isopentyl acetate, Linalool, Linalyl acetate, L-Menthone, Menthol, Mesifuran, Methyl anthranile, Methyl benzoate, Methyl salicylate, Pentyl acetate, Phenethyl acetate, Piparonal, Pulegone, Thymol, trans-cinnamaldehyde, trans- β -damascone, Vanillin, α -phellandrene, β -caryophyllene, β -damascenone, β -ionone, γ -decalactone, γ -dodecalactone, γ -hexalactone, γ -nonalactone, γ -octalactone, δ -undecalactone

Aromatic Amines

Aniline, o-anisidine, m-toluidine, o-toluidine, p-toluidine, 1-aminonaphthalene, 2-aminonaphthalene, 3-aminobiphenyl, 4-aminobiphenyl, 2,5-dimethylaniline, 2,6-dimethylaniline, benzidine

Amines (heterocyclic)

2-amino-6-methyldipyrdo[1,2-a:3',2'-d]imidazole (Glu-P-1), 2-aminopyrido[1,2-A:3',2'-D]imidazole (Glu-P-2), 1-methyl-9H-pyrdo[3,4-b]indole (harman), 2-amino-3-methyl-3H-imidazo[4,5-f]quinoline (IQ), 2-

amino-3-methyl-9H-pyrido[2,3-b]indole (MeAαC), 2-amino-3,4-dimethyl-3H-imidazo[4,5-f]quinoline (MeIQ), 2-amino-3, 8-dimethylimidazo [4,5-f] quinoxaline (MeIQx), 9H-pyrido[3,4-b]indole (norharman), 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine (PhIP), 3-amino-1,4-dimethyl-5H-pyrido[4,3-b] indole (Trp-P-1), 3-amino-1-methyl-5H-pyrido[4,3-b] indole (Trp-P-2), 2-amino-9H-pyrido[2,3-b]indole (AαC)

Carbonyls (GC-MS)

2,3-butanedione, 2,3-heptanedione, 2,3-hexanedione, 2,3-pentanedione, acetaldehyde, acetone, propionaldehyde, glycolaldehyde, glyoxal, isobutyraldehyde, methylglyoxal, 3-buten-2-one, acetoin, acrolein, butyraldehyde, crotonaldehyde, formaldehyde, methyl ethyl ketone

Carbonyls (DNPH)

Acetaldehyde, acetone, acrolein, butyraldehyde, crotonaldehyde, formaldehyde, methyl ethyl ketone , propionaldehyde

Composition (E-liquids and Vapour)

Carbon monoxide, accumulated mass, water, nicotine, NFDAM, ethylene glycol, diethylene glycol, triethylene glycol, triacetin, glycerol, menthol, nicotine, propylene glycol, glycidol

Humectants

Glycerol, propylene glycol, triethylene glycol, diethylene glycol, triacetin

Metals

Arsenic, chromium , cadmium, lead, nickel, selenium, beryllium, cobalt, copper, molybdenum, titanium , tungsten, aluminium, manganese, iron, silver, zirconium, tin, zinc, strontium, gold

calcium, phosphorus, potassium, sodium, magnesium

Mercury

Nicotine Alkaloids

anabasine, anatabine, myosmine, nicotine, nornicotine

pseudoxynicotine (Enol), pseudoxynicotine (Ketone)

free nicotine

Nicotine Degradation Products

nicotine-N-oxide, cotinine, nornicotine, anatabine, myosmine, anabasine, β-nicotyrine, nicotine

Nitrosamines, Tobacco Specific

4-[methyl(nitroso)amino]-1-(3-pyridinyl)-1-butanone (NNK), N-nitrosoanabasine (NAB), N-nitrosoanatabine (NAT), N-nitrosornicotine (NNN)

Nitrosamines, Volatile

N-nitroso-dimethylamine (NDMA), N-nitrosopyrrolidine (NPYR), N-nitroso-N-methylethylamine (NEMA), N-nitrosodibutylamine (NDBA), N-nitrosomorpholine (NMOR), N-nitrosodiisopropylamine (NDiPA), N-nitrosodiethanolamine (NDELA), N-nitrosodiethylamine (NDEA), 1-nitrosopiperidine (NPIP), N-nitrosodipropylamine (NDPA)

N-nitrosodibenzylamine (NDBzA)

N-nitrososarcosine (NSAR)

Organic Acids

acetic acid, benzoic acid, formic acid, glycolic acid, lactic acid, oxalic acid

Particulate Bound Organics

propylene glycol, menthol, nicotine, acrylamide, diethylene glycol, phenol, triacetin, glycerol

Phenols

catechol, hydroquinone, m-cresol, o-cresol, p-cresol, phenol, resorcinol

Polyphenols

chlorogenic acid, caffeic acid, rutin, scopoletin

Polynuclear Aromatic Hydrocarbons

Naphthalene, 1-methylnaphthalene, 2-methylnaphthalene, acenaphthylene, acenaphthene, fluorene, benzo(g,h,i)perylene, benzo(c)phenanthrene, cyclopenta(c,d)pyrene, benz(j)aceanthrylene, benzo(b)fluoranthene, benzo(k)fluoranthene, benz(j)aceanthrylene, benzo(a)pyrene, benzo(e)pyrene, perylene, indeno(1,2,3-cd)pyrene, dibenz(a,h)anthracene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, 5-methylchrysene, benzo(a)anthracene, dibenz(a,l)pyrene, dibenz(a,e)pyrene

Polynuclear Aromatic Hydrocarbons and Aza-arenes

5-methylchrysene, 7H-dibenz(c,g)carbazole, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(j)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)acridine, dibenz(a,j)acridine, dibenz(a,h)anthracene, dibenz(a,e)pyrene, dibenz(a,h)pyrene, dibenz(a,i)pyrene, dibenz(a,l)pyrene, indeno(1,2,3-cd)pyrene

Tar Nicotine and CO

TAR, water, nicotine, carbon monoxide , filter nicotine, TPM

Volatiles

2-nitropropane

Allyl alcohol

Vinyl chloride, propylene oxide, ethylene oxide, furan, nitromethane, vinyl acetate, acetamide (PP), styrene (PP), 1,3-butadiene, isoprene, acrylonitrile, benzene, styrene, toluene, ethylbenzene, isoprene

Volatiles, Semi-

Acetamide, acrylamide, benzo(b)furan, nitrobenzene, pyridine, quinoline, styrene, 2-vinylpyridine, 3-vinylpyridine, 4-vinylpyridine