



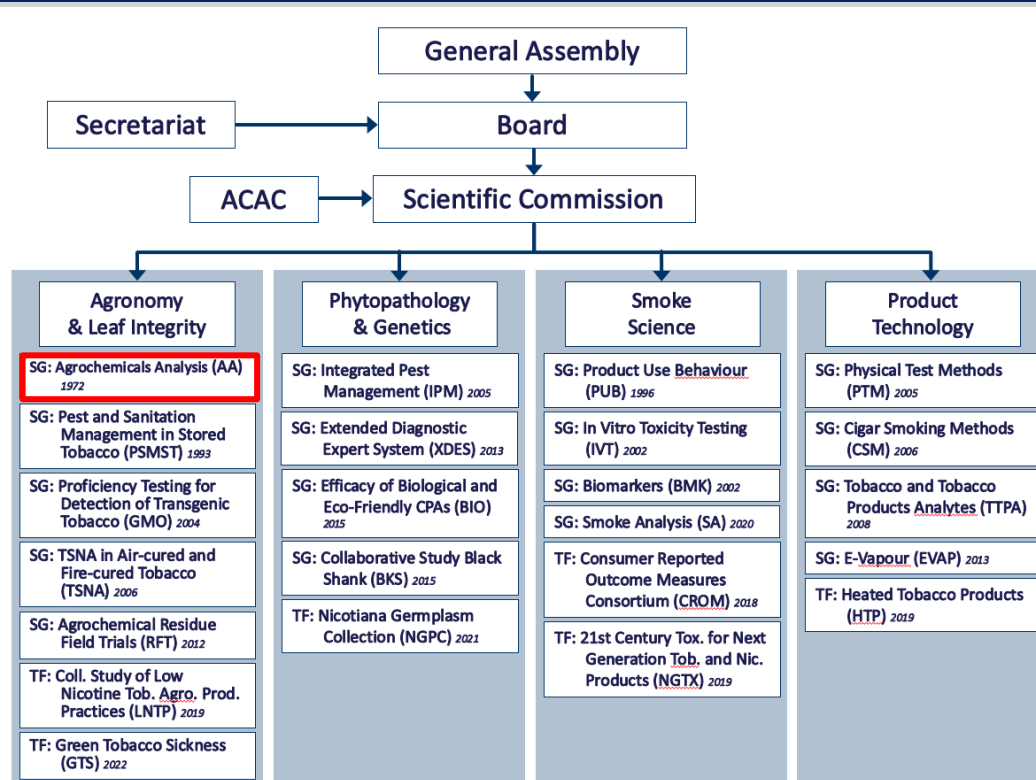
Agrochemicals Analysis Sub-Group Report

CORESTA Congress, Online

October 2022

❖ Objectives

1. To perform regular **proficiency testing** of Multi-Residue Methods for the analysis of agrochemical residues on tobacco
2. To undertake **joint experiments** to resolve unanswered questions arising from proficiency tests; to expand knowledge base on agrochemical residues and their analysis
3. To produce and maintain a series of **Technical Notes** (on different agrochemical residue classes and selected individual compounds) to supplement the **Technical Guideline** and aid method development and improvement





❖ Successfully conducts the Proficiency Test since 2005

- ✓ Laboratory performance (results reliability) increasing since 2005
- ✓ Promotes method development

❖ Frequent Joint Experiment Studies with significant output

- ✓ Improve Multi-Residue/Single method analysis
- ✓ Recent: Dithiocarbamates in Tobacco (2017), Maleic Hydrazide in Tobacco (2017; 2018) & Matrix Effects from Dark Air Cured Tobacco (2021)

❖ Technical Notes and Guidelines supporting laboratories

- ✓ CORESTA Guide N° 5 Technical Guide for Pesticide Residues Analysis on Tobacco and Tobacco Products
- ✓ Maleic Hydrazide, Dinitroanilines, Metamidophos, Pyrethroids, Auxin Herbicides (Dicamba, 2,4-D & 2,4,5-T)



Proficiency Test FT0118

AA SG

❖ Scope & Protocol

- CORESTA Guide N° 1 (October 2021, Version 7) & its candidates

❖ Tobacco test materials

- **Blank tobacco:** Flue-cured Virginia from Zimbabwe (kindly offered by JTI)
- **Spiked test material:** spiked into the blank tobacco

❖ CPAs

- 22 artificially spiked

❖ Participants

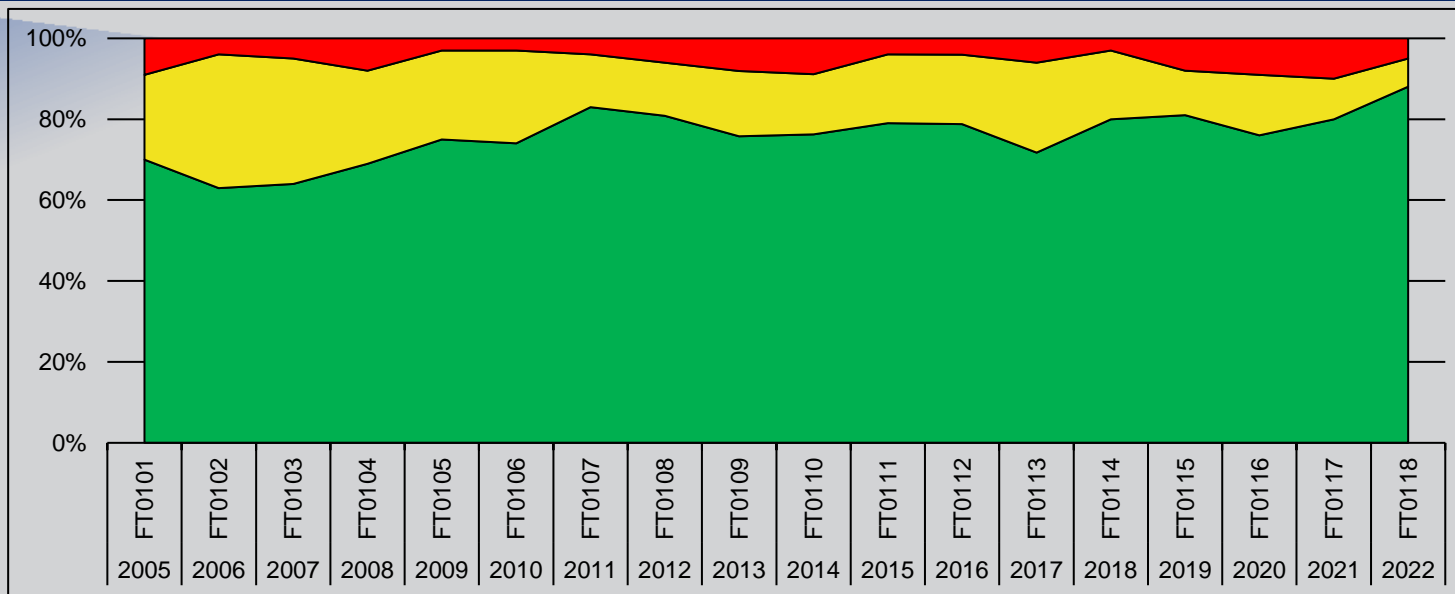
- 23 laboratories

❖ z-Scores average

- 88 %



z-Scores Trend Chart AA SG



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
	FT0101	FT0102	FT0103	FT0104	FT0105	FT0106	FT0107	FT0108	FT0109	FT0110	FT0111	FT0112	FT0113	FT0114	FT0115	FT0116	FT0117	FT0118
Analytes not found	9%	4%	5%	8%	3%	3%	4%	6%	8%	9%	4%	4%	6%	3%	8%	9%	10%	5%
% $z > 2$	21%	33%	31%	23%	22%	23%	13%	13%	16%	15%	17%	17%	22%	17%	11%	15%	10%	7%
% $z \leq 2$	70%	63%	64%	69%	75%	74%	83%	80%	75%	77%	79%	78%	71%	80%	81%	76%	80%	88%



History of AA SG Meetings

AA SG

Meeting	Place	Host
61 (2022)	Dubai, UAE	Premium Tobacco International
60 (2021)	Online	-
59 (2020)	Online	-
58 (2019)	Dubai, UAE	Premium Tobacco International
57 (2018)	Gothenburg, Sweden	Eurofins-Sweden
56 (2017)	Jujuy, Argentina	AOI Argentina, Cooperativa de Productores Tabacaleros de Salta & Cooperativa de Tabacaleros de Jujuy
55 (2016)	Chiang Mai, Thailand	AOI Thailand
54 (2015)	Victoria Falls, Zimbabwe	Tobacco Research Board
53 (2014)	Hamburg, Germany	Eurofins-Dr. Specht
52 (2013)	Raleigh NC, USA	Global Laboratory Service & Microbac Laboratories
51 (2012)	Vienna, Austria	JTI Ökolab
50 (2011)	Bergerac, France	Imperial Tobacco
49 (2010)	Trier, Germany	JTI
48 (2009)	Jujuy, Argentina	AOI Argentina & Cooperativa de Tabacaleros de Jujuy
47 (2008)	Lundsbrun, Sweden	Eurofins-Sweden & Swedish Match
46 (2007)	Brufa di Torgiano, Italy	JTI
- (WG)	Berlin, Germany	VdC
45 (2006)	Wiston-Salem, USA	R.J. Reynolds
44 (2005)	Hamburg, Germany	Eurofins-Dr. Specht

- **Date: Oct. 5th – 6th, 2022**
- **Location: Taj Jumeirah Lakes Towers**
- **Participants: 22**
- **Countries: 12**
- **Laboratories, manufacturers, tobacco suppliers, academia**
- **Review of PT FT0118, presentations given by participants**



Ongoing/Future Work

AA SG

- ❖ Working Group – to **review** the Technical Guideline and Notes
- ❖ Joint Technical Experiment Study – **Pymetrozine**
- ❖ Technical Notes – **Pymetrozine**
- ❖ Proficiency Test **FT0119**
- ❖ Increase **PT** participation
- ❖ Increase **meeting attendance**



THANK YOU

