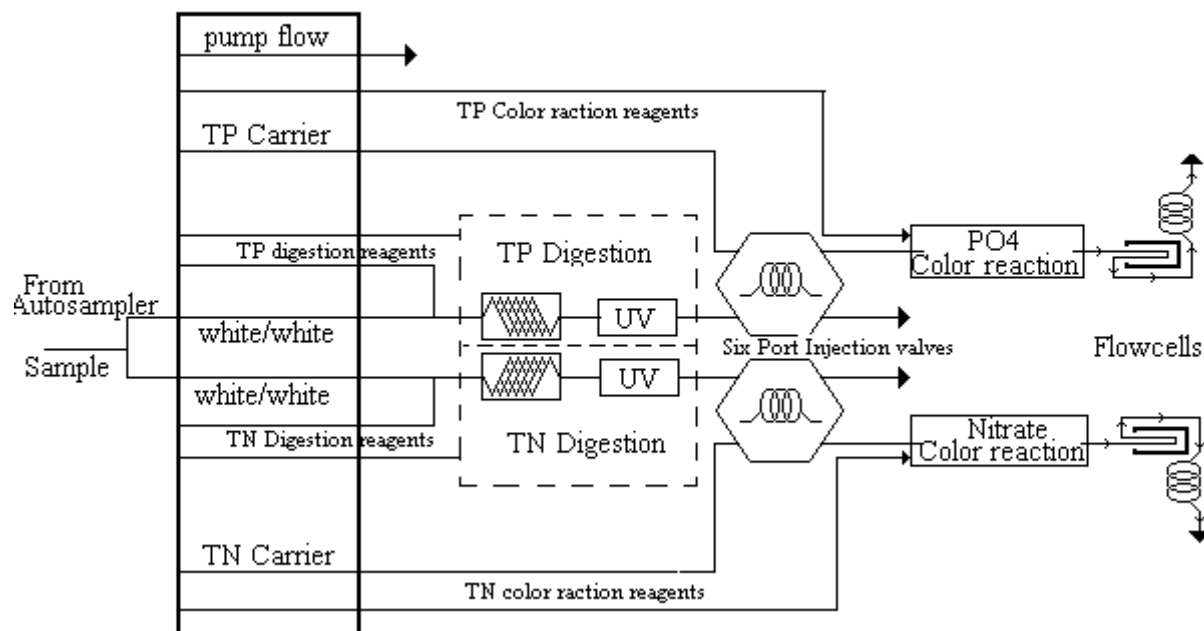


Running Simultaneous TN and TP

Lachat Instruments

Dual Channel Manifold Diagram:



The diagram shows how to run TN and TP simultaneously. A sample delivered from the auto sampler is split into two sample lines through a tee before the pump. One of the sample lines goes into TP digestion, and the other goes into TN digestion. The same flow rates are maintained for both sample lines by using the same pump tubing. The rest of the manifold follows the individual methods.

Special Apparatus:

To run TN and TP simultaneously:

2-Lachat Sample Preparation Modules, A30X01 (x=1 for 110V, x=2 for 220V) with UV-254 lamp.

Timing:

The timing values listed in the individual methods are approximate and will need to be optimized using graphical events programming. When running inline TN and TP simultaneously, the following adjustments might need to be done before running:

Method	Parameters	Parameter determination
Analytical table	For all of parameters	No special change. Follow individual in-line TN and TP method.
Valve timing	Method cycle period:	Choose the one with longer cycle period in the in-line TN and TP methods
	Sample reach to first valve:	Choose the one with shorter time to reach first valve in the in-line TN and TP methods.
	Load time(for the channel with the shorter time sample reach to first valve (tb)):	No change. It will be same load time as it is in the method.
	Load time (for the channel with the longer time sample reach to first valve (ta)): Load period:	Choose the original load time + (ta-tb) No change. Follow individual in-line TN and TP method.
	Inject period:	No change. Follow individual in-line TN and TP method.
Sampler time	Probe in wash period:	Choose the longer time in the in-line TN and TP methods.
	Probe in sample period:	Choose the longer time in the in-line TN and TP methods.