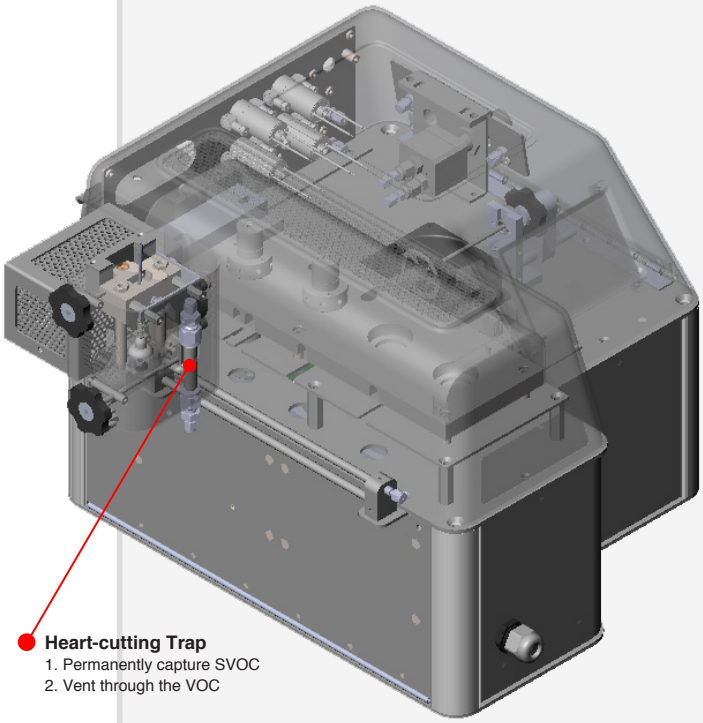
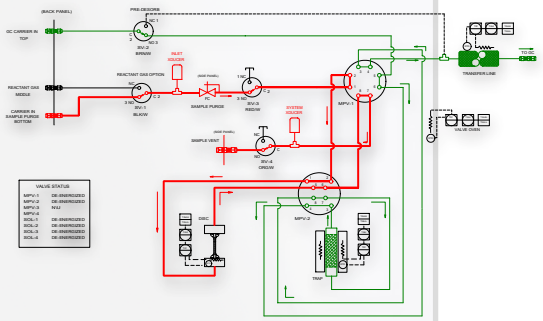
Pyroprobe Heart-cutting Option

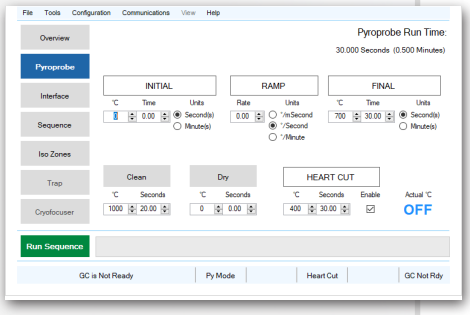
The CDS Pyroprobe Heart-cutting Option adds a unique sample flow pathway to transfer one or more selected groups of compounds based on their boiling points, that are not the target of interest, through a vent port onto a filtering device. This option helps to improve the sensitivity on target compounds.



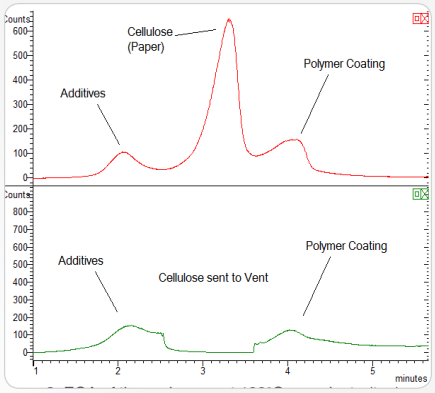
Heart-cutting Trap
1. Permanently capture SVOC
2. Vent through the VOC



Heart-cutting Flow Diagram



Heart-cutting Option
Digital Control Interface (DCI)



Top: EGA of a thermal paper sample
Bottom: EGA with heart-cutting to remove cellulose

Experimental Parameters
EGA with Heart Cutting
Pyroprobe Method 1:
Use GC Ready Enabled
Issue GC Start Enabled

Initial:	100°C
Final:	350°C
Ramp:	100°C per minute
Interface:	300°C
Transfer Line:	300°C
Valve Oven:	300°C

Pyroprobe Method 2:
Use GC Ready Disabled
Issue GC Start Disabled

Heart cutting:	450°C 60 seconds
Initial:	450°C
Final:	800°C
Ramp:	100°C per minute

GC-MS
Column: fused silica (1m x 0.10mm))
Carrier: Helium 1.25mL/min, 75:1 split
Oven: Isothermal 300°C
Ion Source: 230°C
Mass Range: 35-600amu

Technical Specifications:

	Heart-cutting Option
Compatibility	6150 and 6200

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